					ST DEPARTMENT DIVISION O	OF NA					AMEN	FC DED REPC	RM 3 ORT		
		APPI	LICATION	FOR P	ERMIT TO DRILL	L				1. WELL NAME and		<b>R</b> -19-8-17			
2. TYPE	OF WORK	RILL NEW WELL (I	neent	ER P&A	WELL DEEPE	N WELL				3. FIELD OR WILD		NT BUTTE			
4. TYPE (			~		Methane Well: NO					5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)					
6. NAME	OF OPERATOR						7. OPERATOR PHONE								
8. ADDRI	ESS OF OPERA				TON COMPANY		9. OPERATOR E-MAIL								
	RAL LEASE N		Rt 3 Box 363		on, UT, 84052 <b>11. MINERAL OWNE</b>	RSHIP	mcrozier@newfield.com  12. SURFACE OWNERSHIP								
		UTU-76956			FEDERAL (IND	IAN 🦲	) STATE (	FEE (		FEDERAL 🗓 IN	DIAN 🦲	STATI	· 🔾	FEE 🔵	
13. NAM	E OF SURFACE	OWNER (if box 1	l2 = 'fee')							14. SURFACE OWN	ER PHOI	NE (if box	12 = 'fe	ee')	
15. ADDI	RESS OF SURF	ACE OWNER (if b	ox 12 = 'fee	')						16. SURFACE OWN	ER E-MA	IL (if box	12 = 'fe	ee')	
	AN ALLOTTEE 2 = 'INDIAN')		MINGL	LE PRODUCT	ION FROM	1	19. SLANT								
(II DOX I	z – INDIAN )		Comming	gling Applicat	ion) NO (	0	VERTICAL DIF	RECTION	AL 📵	HORIZON	ITAL 🔵				
20. LOC	ATION OF WE		QT	r-QTR	SECT	ION	TOWNSHIP	R	ANGE	МЕ	RIDIAN				
LOCATI	ON AT SURFAC	N	IWNW	29		8.0 S	1	7.0 E		S					
Top of L	Jppermost Pro	ducing Zone	1	50 FNL	157 FWL	N	IWNW	29		8.0 S	1	7.0 E		S	
At Total	Depth		7	269 FSL	. 276 FEL		SESE	19	9 8.0 S		1	7.0 E		S	
21. COU		DUCHESNE		2	22. DISTANCE TO N		<b>T LEASE LIN</b> 69	IE (Feet)		23. NUMBER OF AC		<b>DRILLING</b> 20	UNIT		
					25. DISTANCE TO N (Applied For Drilling	g or Co		AME POOI	L	26. PROPOSED DEF	PTH : 6700	TVD: 67	00		
27. ELEV	ATION - GROU	JND LEVEL		- 2	28. BOND NUMBER	1.1	140			29. SOURCE OF DR					
		5286				WYB0	000493 WATER RIGHTS APPROVAL NUMBER IF APPLICATION AND WATER RIGHTS AND WATER RIGHTS AND WATER RIGHTS APPLICATION AND WATER RIGHTS AND W					LICABLE			
o					Hole, Casing,				1				V2 11		
String Surf	Hole Size	Casing Size 8.625	0 - 300	Weig 24.			Max Mu		Cement Class G			Sacks 138	Yield 1.17	Weight 15.8	
Prod	7.875	5.5	0 - 6700	15.			8.3		Prem	nium Lite High Stre	ngth	325	3.26	11.0	
										50/50 Poz		363	1.24	14.3	
					A	ТТАСН	IMENTS								
	VERIFY T	HE FOLLOWIN	G ARE ATT	ACHE	D IN ACCORDAN	CE WI	ITH THE U	TAH OIL	AND G	GAS CONSERVATI	ON GE	NERAL F	RULES		
<b>∠</b> w	ELL PLAT OR I	MAP PREPARED E	Y LICENSED	SURV	EYOR OR ENGINEE	R	<b>№</b> сом	IPLETE DR	ILLING	PLAN					
AF	FIDAVIT OF S	TATUS OF SURFA	CE OWNER	AGREEI	MENT (IF FEE SURF	ACE)	FOR	4 5. IF OP	ERATOI	R IS OTHER THAN T	HE LEAS	E OWNER	t		
DRILLED	RECTIONAL S		TOPOGRAPHICAL MAP												
NAME M	NAME Mandie Crozier TITLE Regulatory Tec							PHONE 435 646-4825							
SIGNAT	SIGNATURE DATE 06/08/2011							EMAIL mcrozier@newfield.com							
	mber assign 013508230				APPROVAL		Bacquill								
				Permit Manager											

# NEWFIELD PRODUCTION COMPANY GMBU U-19-8-17 AT SURFACE: NW/NW SECTION 29, T8S, R17E DUCHESNE COUNTY, UTAH

#### TEN POINT DRILLING PROGRAM

#### 1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

#### 2. <u>ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:</u>

 Uinta
 0' – 1750'

 Green River
 1750'

 Wasatch
 6510'

 Proposed TD
 6700'

#### 3. <u>ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:</u>

Green River Formation (Oil) 1750' – 6510'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval Date Sampled Flow Rate Temperature

Hardness pH

Water Classification (State of Utah)

Dissolved Calcium (Ca) (mg/l)

Dissolved Iron (Fe) (ug/l)

Dissolved Magnesium (Mg) (mg/l)

Dissolved Bicarbonate (NaHCO<sub>3</sub>) (mg/l)

Dissolved Sodium (Na) (mg/l)

Dissolved Carbonate (CO<sub>3</sub>) (mg/l)

Dissolved Chloride (Cl) (mg/l)

Dissolved Sulfate (SO<sub>4</sub>) (mg/l)

Dissolved Total Solids (TDS) (mg/l)

#### 4. PROPOSED CASING PROGRAM

a. Casing Design: GMBU U-19-8-17

Size	Interval		Maiaht	Grade	Coupling	Design Factors			
Size	Тор	Bottom	Weight	Grade	Couping	Burst	Collapse	Tension	
Surface casing	0'	300'	24.0	J-55	STC	2,950	1,370	244,000	
8-5/8"	U	300	24.0	J-55	310	17.53	14.35	33.89	
Prod casing	0'	6.700	45.5	J-55	LTC	4,810	4,040	217,000	
5-1/2"	0'	6,700'	15.5		LTC	2.26	1.90	2.09	

#### Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg
Pore pressure at surface casing shoe = 8.33 ppg
Pore pressure at prod casing shoe = 8.33 ppg
Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. Cementing Design: GMBU U-19-8-17

Job	Fill	Description	Sacks ft <sup>3</sup>	OH Excess*	Weight (ppg)	Yield (ft³/sk)
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	4,700'	Prem Lite II w/ 10% gel + 3% KCI	325 1059	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

<sup>\*</sup>Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

#### 5. <u>MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL</u>:

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

#### 6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

From surface to  $\pm 300$  feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about  $\pm 300$  feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

#### 7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

#### 8. <u>TESTING, LOGGING AND CORING PROGRAMS</u>:

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +-. A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

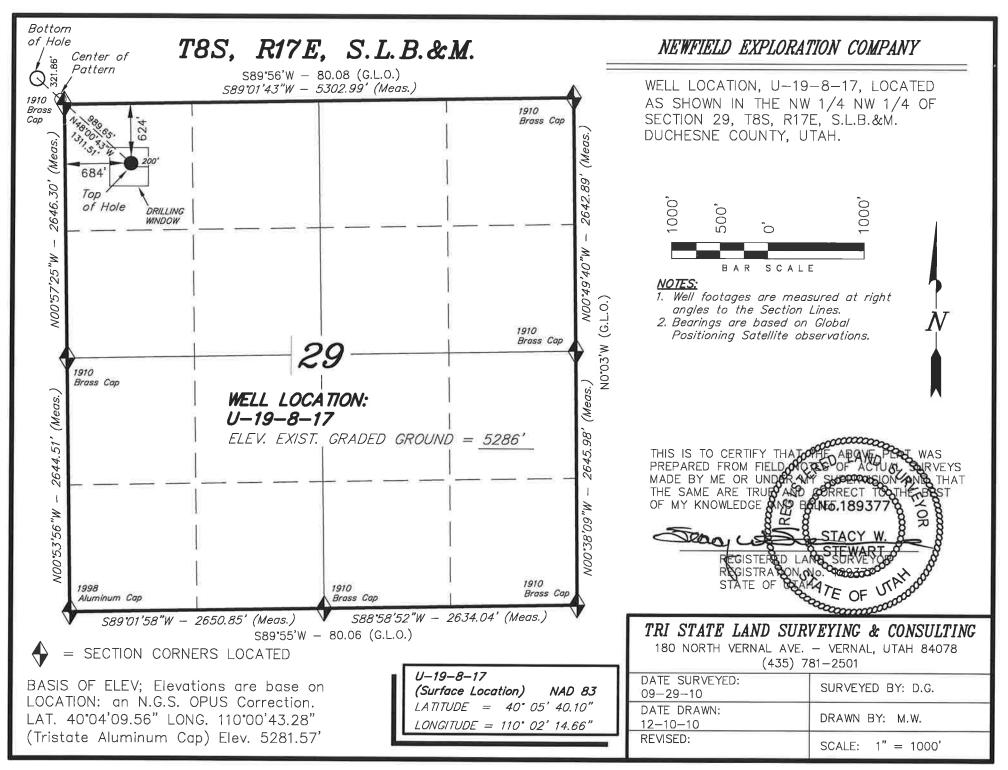
#### 9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

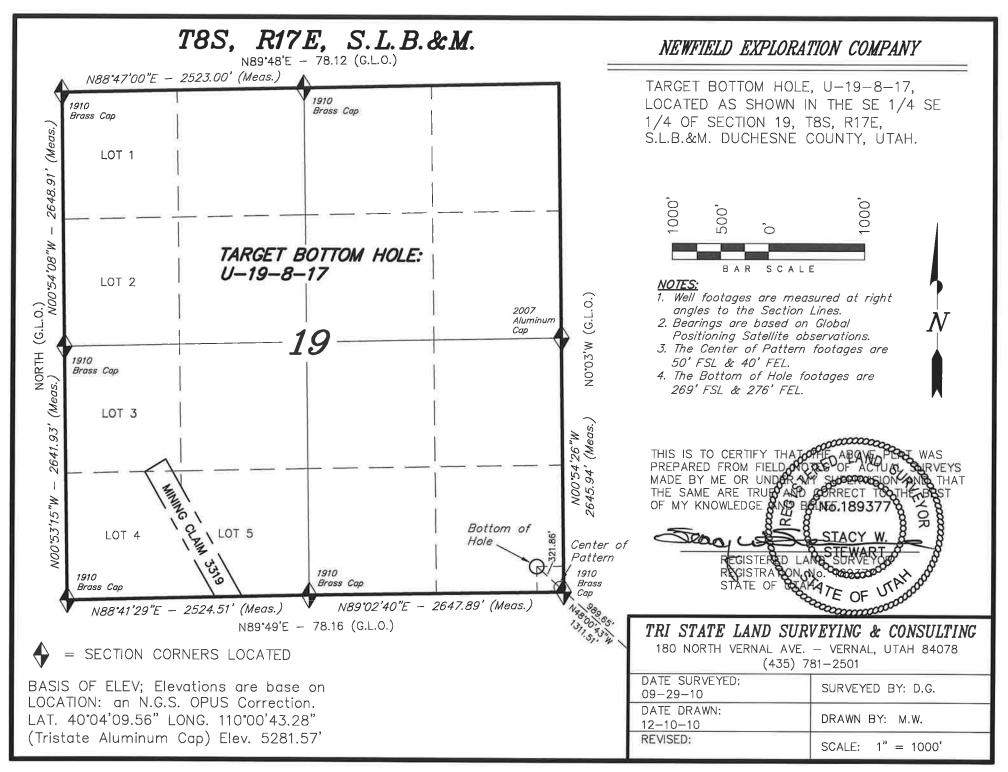
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

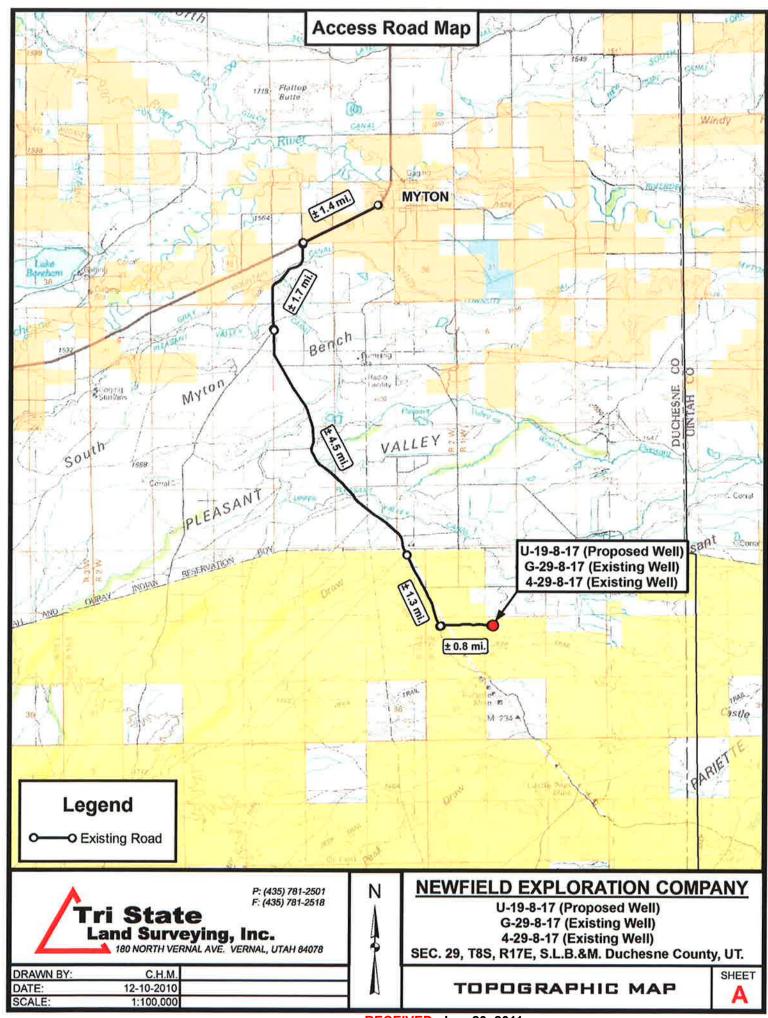
bottomhole pressure will approximately equal total depth in feet multiplied by a  $0.433~\mathrm{psi/foot}$  gradient.

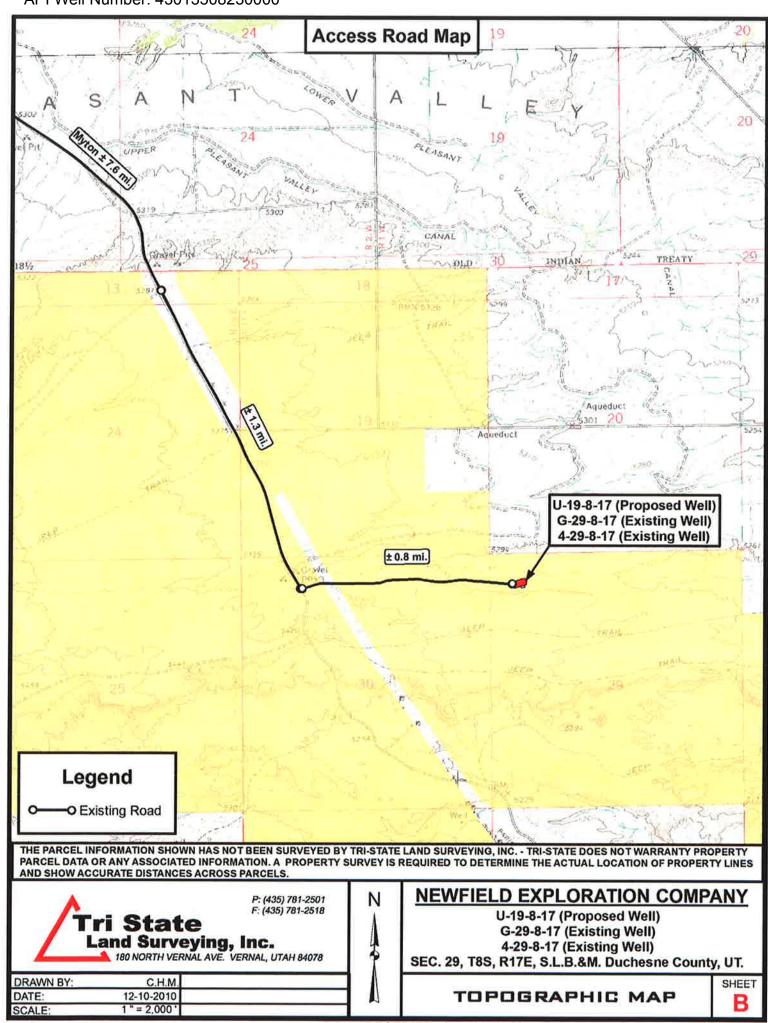
#### 10. <u>ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:</u>

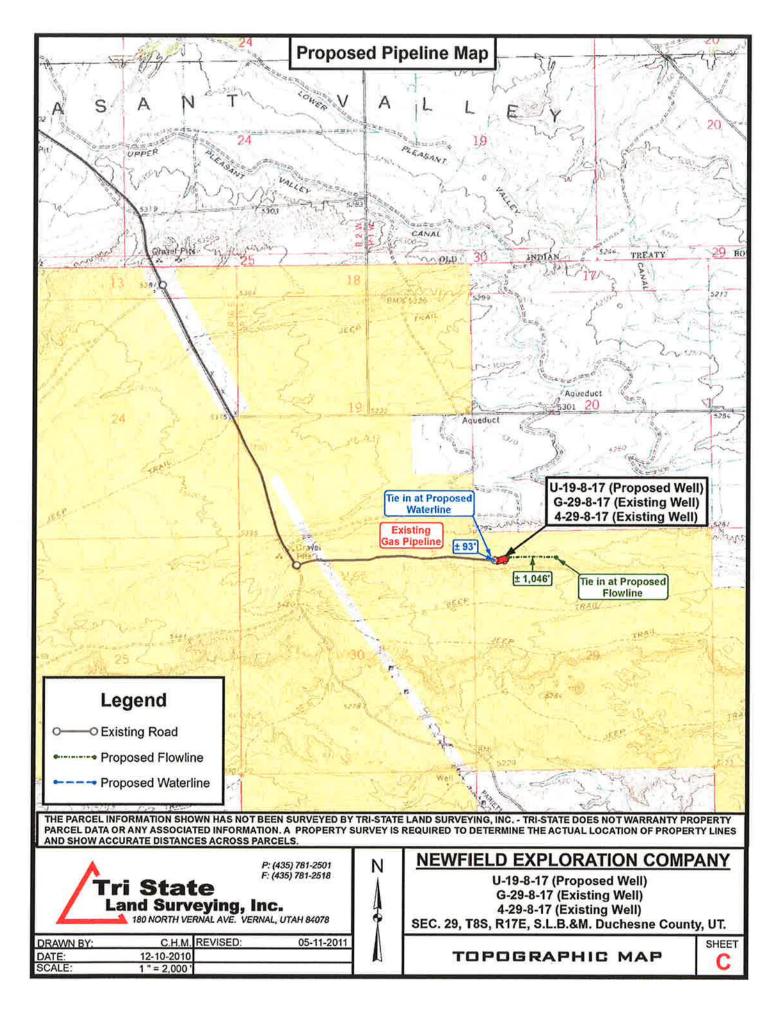
It is anticipated that the drilling operations will commence the third quarter of 2011, and take approximately seven (7) days from spud to rig release.

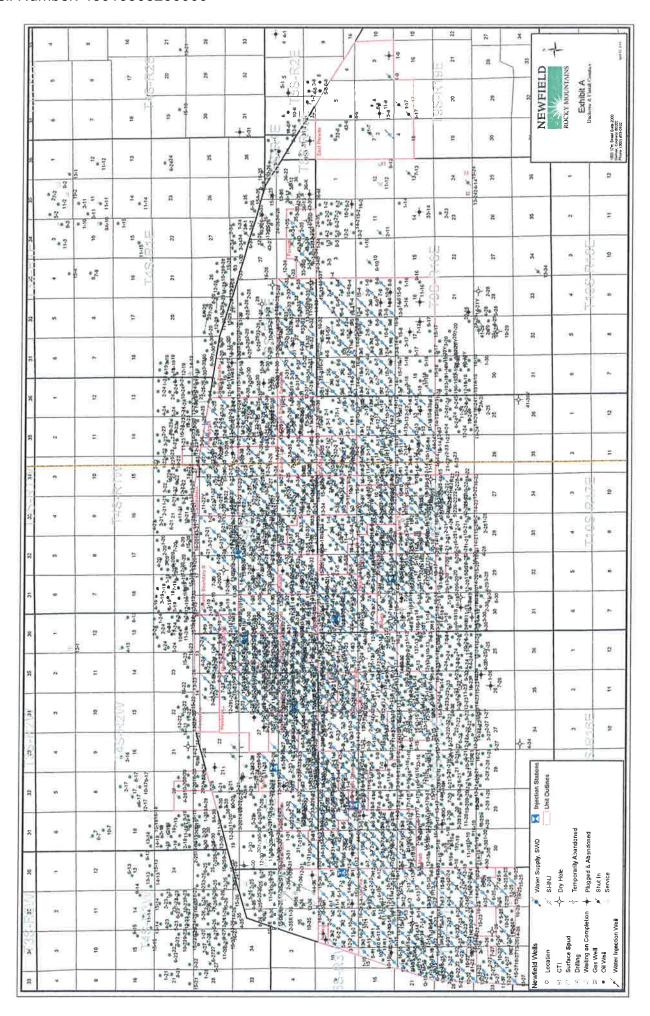


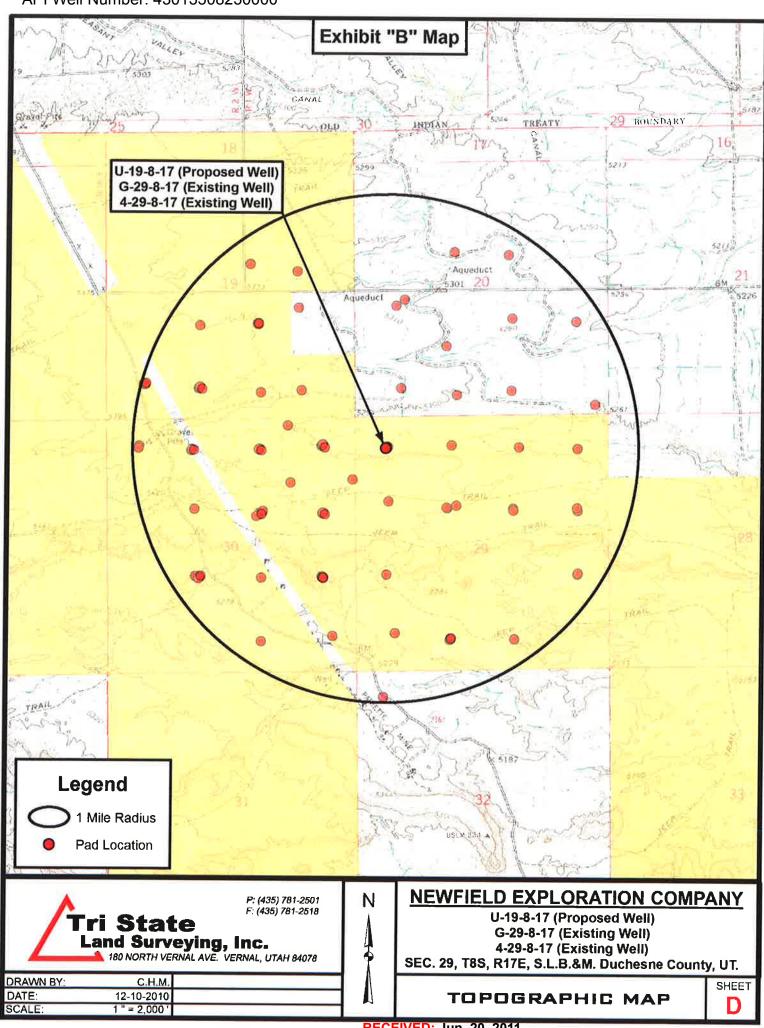














### **NEWFIELD EXPLORATION**

USGS Myton SW (UT) SECTION 19 T8S R17E U-19-8-17

Wellbore #1

Plan: Design #1

## **Standard Planning Report**

07 December, 2010





#### PayZone Directional Services, LLC.

Planning Report



 Database:
 EDM 2003.21 Single User Db

 Company:
 NEWFIELD EXPLORATION

 Project:
 USGS Myton SW (UT)

 Site:
 SECTION 19 T8S R17E

 Well:
 U-19-8-17

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well U-19-8-17

U-19-8-17 @ 5298.0ft (Newfield Rig) U-19-8-17 @ 5298.0ft (Newfield Rig)

True

Minimum Curvature

Project USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System: US State Plane 1983

Geo Datum: North American Datum 1983

Map Zone: Utah Central Zone

System Datum: Mean Sea Level

Site SECTION 19 T8S R17E

Northing: 7,207,700.00 ft Site Position: Latitude: 40° 5' 52.768 N From: Мар Easting: 2,045,700.00 ft Longitude: 110° 3' 4.083 W **Position Uncertainty:** 0.0 ft Slot Radius: **Grid Convergence:** 0.93 °

Well U-19-8-17, SHL LAT: 40 05 40.10 LONG: -110 02 14.66

 Well Position
 +N/-S
 -1,282.1 ft
 Northing:
 7,206,480.87 ft
 Latitude:
 40° 5′ 40.100 N

 +E/-W
 3,840.4 ft
 Easting:
 2,049,560.82 ft
 Longitude:
 110° 2′ 14.660 W

Position Uncertainty 0.0 ft Wellhead Elevation: 5,298.0 ft Ground Level: 5,286.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/12/07	11.38	65.85	52,354

Design	Design #1					
Audit Notes:						
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:		Depth From (TVD)	+N/-S	+E/-W	Direction	
		(ft)	(ft)	(ft)	(°)	
		5,200.0	0.0	0.0	311.99	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,494.0	13.41	311.99	1,485.9	69.7	-77.4	1.50	1.50	0.00	311.99	
5,312.2	13.41	311.99	5,200.0	662.1	-735.6	0.00	0.00	0.00	0.00	U-19-8-17 TGT
6,700.1	13.41	311.99	6,550.0	877.4	-974.8	0.00	0.00	0.00	0.00	



#### PayZone Directional Services, LLC.

**Planning Report** 



Database: EDM 2003.21 Single User Db Company: NEWFIELD EXPLORATION Project: USGS Myton SW (UT)
Site: SECTION 19 T8S R17E

 Well:
 U-19-8-17

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well U-19-8-17

U-19-8-17 @ 5298.0ft (Newfield Rig) U-19-8-17 @ 5298.0ft (Newfield Rig)

True

Minimum Curvature

resign.	Boolgii ii i								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
							. ,		0.00
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	311.99	700.0	0.9	-1.0	1.3	1.50	1.50	0.00
800.0	3.00	311.99	799.9	3.5	-3.9	5.2	1.50	1.50	0.00
900.0	4.50	311.99	899.7	7.9	-8.8	11.8	1.50	1.50	0.00
300.0	4.00	011.00	000.7	7.5	0.0	11.0	1.00	1.00	0.00
1,000.0	6.00	311.99	999.3	14.0	-15.6	20.9	1.50	1.50	0.00
1,100.0	7.50	311.99	1,098.6	21.9	-24.3	32.7	1.50	1.50	0.00
1,200.0	9.00	311.99	1,197.5	31.5	-35.0	47.0	1.50	1.50	0.00
1,300.0	10.50	311.99	1,197.5	42.8	-33.0 -47.5	64.0	1.50	1.50	0.00
1,400.0	12.00	311.99	1,394.2	55.8	-62.0	83.5	1.50	1.50	0.00
1,494.0	13.41	311.99	1,485.9	69.7	-77.4	104.1	1.50	1.50	0.00
1,500.0	13.41	311.99	1,491.7	70.6	-78.4	105.5	0.00	0.00	0.00
1,600.0			1,589.0	86.1	-76. <del>4</del> -95.7	128.7	0.00	0.00	0.00
	13.41	311.99							
1,700.0	13.41	311.99	1,686.2	101.6	-112.9	151.9	0.00	0.00	0.00
1,800.0	13.41	311.99	1,783.5	117.1	-130.2	175.1	0.00	0.00	0.00
1,900.0	13.41	311.99	1,880.8	132.7	-147.4	198.3	0.00	0.00	0.00
2,000.0	13.41	311.99	1,978.1	148.2	-164.6	221.5	0.00	0.00	0.00
2,100.0		311.99	2,075.3		-181.9	244.7	0.00	0.00	0.00
	13.41			163.7					
2,200.0	13.41	311.99	2,172.6	179.2	-199.1	267.9	0.00	0.00	0.00
2,300.0	13.41	311.99	2,269.9	194.7	-216.3	291.1	0.00	0.00	0.00
2,400.0	13.41	311.99	2,367.2	210.2	-233.6	314.3	0.00	0.00	0.00
2,500.0	13.41	311.99	2,464.4	225.8	-250.8	337.4	0.00	0.00	0.00
2,600.0	13.41	311.99	2,561.7	241.3	-268.1	360.6	0.00	0.00	0.00
2,700.0	13.41	311.99	2,659.0	256.8	-285.3	383.8	0.00	0.00	0.00
2,800.0	13.41	311.99	2,756.3	272.3	-302.5	407.0	0.00	0.00	0.00
2,900.0	13.41	311.99	2,853.5	287.8	-319.8	430.2	0.00	0.00	0.00
3,000.0	13.41	311.99	2,950.8	303.3	-337.0	453.4	0.00	0.00	0.00
3,100.0	13.41	311.99	3,048.1	318.8	-354.2	476.6	0.00	0.00	0.00
3,200.0	13.41	311.99	3,145.3	334.4	-371.5	499.8	0.00	0.00	0.00
3,300.0	13.41	311.99	3,242.6	349.9	-388.7	523.0	0.00	0.00	0.00
2 400 0	10.44	244.00	2 220 0	265.4	405.0	E46.0	0.00	0.00	0.00
3,400.0	13.41	311.99	3,339.9	365.4	-405.9	546.2	0.00	0.00	0.00
3,500.0	13.41	311.99	3,437.2	380.9	-423.2	569.4	0.00	0.00	0.00
3,600.0	13.41	311.99	3,534.4	396.4	-440.4	592.6	0.00	0.00	0.00
3,700.0	13.41	311.99	3,631.7	411.9	-457.7	615.7	0.00	0.00	0.00
3,800.0	13.41	311.99	3,729.0	427.5	-474.9	638.9	0.00	0.00	0.00
	10.44	211.00	2 006 2	442.0	400.4	660.4	0.00		0.00
3,900.0	13.41	311.99	3,826.3	443.0	-492.1	662.1	0.00	0.00	0.00
4,000.0	13.41	311.99	3,923.5	458.5	-509.4	685.3	0.00	0.00	0.00
4,100.0	13.41	311.99	4,020.8	474.0	-526.6	708.5	0.00	0.00	0.00
4,200.0	13.41	311.99	4,118.1	489.5	-543.8	731.7	0.00	0.00	0.00
4,300.0	13.41	311.99	4,215.4	505.0	-561.1	754.9	0.00	0.00	0.00
4,400.0	13.41	311.99	4,312.6	520.5	-578.3	778.1	0.00	0.00	0.00
4,500.0	13.41	311.99	4,409.9	536.1	-595.6	801.3	0.00	0.00	0.00
4,600.0	13.41	311.99	4,507.2	551.6	-612.8	824.5	0.00	0.00	0.00
4,700.0	13.41	311.99	4,604.5	567.1	-630.0	847.7	0.00	0.00	0.00
4,800.0	13.41	311.99	4,701.7	582.6	-647.3	870.9	0.00	0.00	0.00
4,900.0	13.41	311.99	4,799.0	598.1	-664.5	894.0	0.00	0.00	0.00
5,000.0	13.41	311.99	4,896.3	613.6	-681.7	917.2	0.00	0.00	0.00
5,100.0	13.41	311.99	4,993.5	629.1	-699.0	940.4	0.00	0.00	0.00
5,200.0	13.41	311.99	5,090.8	644.7	-716.2	963.6	0.00	0.00	0.00



#### PayZone Directional Services, LLC.

**Planning Report** 



Database: Company: Project: Site: EDM 2003.21 Single User Db NEWFIELD EXPLORATION USGS Myton SW (UT) SECTION 19 T8S R17E

 Well:
 U-19-8-17

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well U-19-8-17

U-19-8-17 @ 5298.0ft (Newfield Rig) U-19-8-17 @ 5298.0ft (Newfield Rig)

True

Minimum Curvature

lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	13.41	311.99	5,188.1	660.2	-733.5	986.8	0.00	0.00	0.00
5,312.2	13.41	311.99	5,200.0	662.1	-735.6	989.6	0.00	0.00	0.00
U-19-8-17 TO	<b>GT</b>								
5,400.0 5,500.0 5,600.0 5,700.0	13.41 13.41 13.41 13.41	311.99 311.99 311.99 311.99	5,285.4 5,382.6 5,479.9 5,577.2	675.7 691.2 706.7 722.2	-750.7 -767.9 -785.2 -802.4	1,010.0 1,033.2 1,056.4 1,079.6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
5,800.0 5,900.0 6,000.0 6,100.0 6,200.0	13.41 13.41 13.41 13.41 13.41	311.99 311.99 311.99 311.99 311.99	5,674.5 5,771.7 5,869.0 5,966.3 6,063.6	737.8 753.3 768.8 784.3 799.8	-819.6 -836.9 -854.1 -871.4 -888.6	1,102.8 1,126.0 1,149.2 1,172.3 1,195.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,300.0 6,400.0 6,500.0 6,600.0 6,700.1	13.41 13.41 13.41 13.41	311.99 311.99 311.99 311.99 311.99	6,160.8 6,258.1 6,355.4 6,452.7 6,550.0	815.3 830.8 846.4 861.9 877.4	-905.8 -923.1 -940.3 -957.5 -974.8	1,218.7 1,241.9 1,265.1 1,288.3 1,311.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. TVD +N/-S +E/-W Northi (°) (ft) (ft) (ft) (ft)		Northing (ft)			Longitude		
U-19-8-17 TGT - plan hits target - Circle (radius 75.0)	0.00	0.00	5,200.0	662.1	-735.6	7,207,130.83	2,048,814.53	40° 5' 46.643 N	110° 2' 24.126 W



Project: USGS Myton SW (UT) Site: SECTION 19 T8S R17E

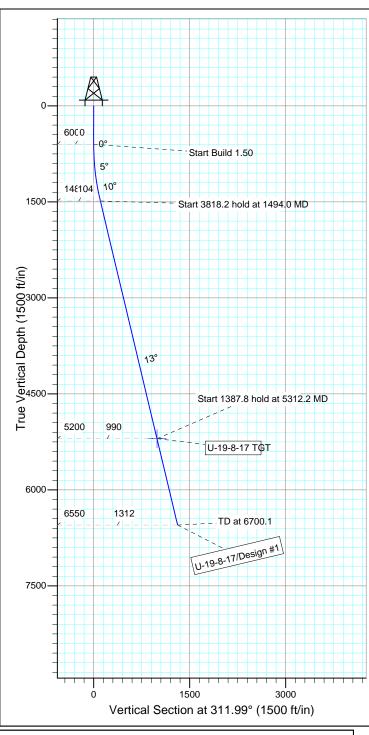
Well: U-19-8-17 Wellbore: Wellbore #1 Design: Design #1



Azimuths to True North Magnetic North: 11.38°

Magnetic Field Strength: 52354.1snT Dip Angle: 65.85° Date: 2010/12/07 Model: IGRF2010

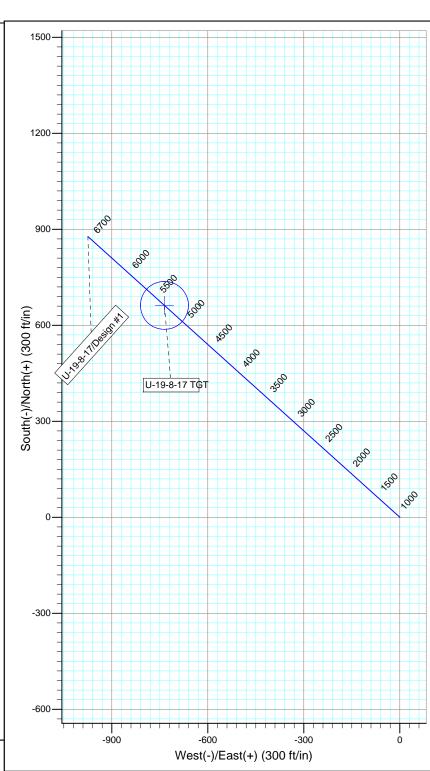
KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'





Name TVD +N/-S +E/-W Shape U-19-8-17 TGT 5200.0 662.1 -735.6 Circle (Radius: 75.0)





#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1494.0	13.41	311.99	1485.9	69.7	-77.4	1.50	311.99	104.1	
4	5312.2	13.41	311.99	5200.0	662.1	-735.6	0.00	0.00	989.6	U-19-8-17 TGT
5	6700.1	13.41	311.99	6550.0	877.4	-974.8	0.00	0.00	1311.5	

# NEWFIELD PRODUCTION COMPANY GMBU U-19-8-17 AT SURFACE: NW/NW SECTION 29, T8S, R17E DUCHESNE COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### MULTI-POINT SURFACE USE & OPERATIONS PLAN

#### 1. <u>EXISTING ROADS</u>

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU U-19-8-17 located in the NW 1/4 NW 1/4 Section 29, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed in a southeasterly direction -7.5 miles to it's junction with an existing dirt road to the east; proceed in a easterly direction -0.8 miles to it's junction with the beginning of the access road to the existing 4-29-8-17 well location.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

#### 2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 4-29-8-17 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

#### 3. <u>LOCATION OF EXISTING WELLS</u>

Refer to Exhibit "B".

#### 4. <u>LOCATION OF EXISTING AND/OR PROPOSED FACILITIES</u>

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

#### 5. <u>LOCATION AND TYPE OF WATER SUPPLY</u>

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District Water Right: 43-10136

Maurice Harvey Pond Water Right: 47-1358

Neil Moon Pond

Water Right: 43-11787

Newfield Collector Well

Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy

District).

There will be no water well drilled at this site.

#### 6. <u>SOURCE OF CONSTRUCTION MATERIALS</u>

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

#### 7. METHODS FOR HANDLING WASTE DISPOSAL

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

#### 8. <u>ANCILLARY FACILITIES</u>

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

#### 9. WELL SITE LAYOUT

See attached Location Layout Sheet.

#### **Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

#### 10. PLANS FOR RESTORATION OF SURFACE:

#### a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

#### b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

#### 11. <u>SURFACE OWNERSHIP</u> – Bureau of Land Management.

#### 12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit #U-11-MQ-0287b,p,s 5/13/11, prepared by Montgomery Archaeological Consultants. Paleontological Resource Survey prepared by, Wade E. Miller, 5/31/11. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 93' of buried water line to be granted for the proposed GMBU U-19-8-17.

It is proposed that the disturbed area will be 30' wide to allow for construction of the proposed buried 10" steel water injection line and a buried 3" poly water return line. The proposed buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice 3160-5 form will be applied for through the Bureau of Land Management field office.

For a ROW plan of development, please refer to the Greater Monument Butte Green River Development SOP and as well as the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

#### **Surface Flow Line**

Newfield requests 1,046' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "C"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

<u>Clearing and Grading</u>: No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

<u>Installation</u>: The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

<u>Termination and Final Reclamation:</u> After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

#### Water Disposal

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

#### **Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made

with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

#### **Details of the On-Site Inspection**

The proposed GMBU U-19-8-17 was on-sited on 1/26/11. The following were present; Tim Eaton (Newfield Production), Janna Simonsen (Bureau of Land Management), and Suzanne Grayson (Bureau of Land Management).

#### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU U-19-8-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU U-19-8-17, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

#### 13. LESSEE'S OR OPERATOR'S REPRENSENTATIVE AND CERTIFICATION:

Representative

Name: Tim Eaton

Address: Newfield Production Company

Route 3, Box 3630 Myton, UT 84052

Telephone: (435) 646-3721

#### Certification

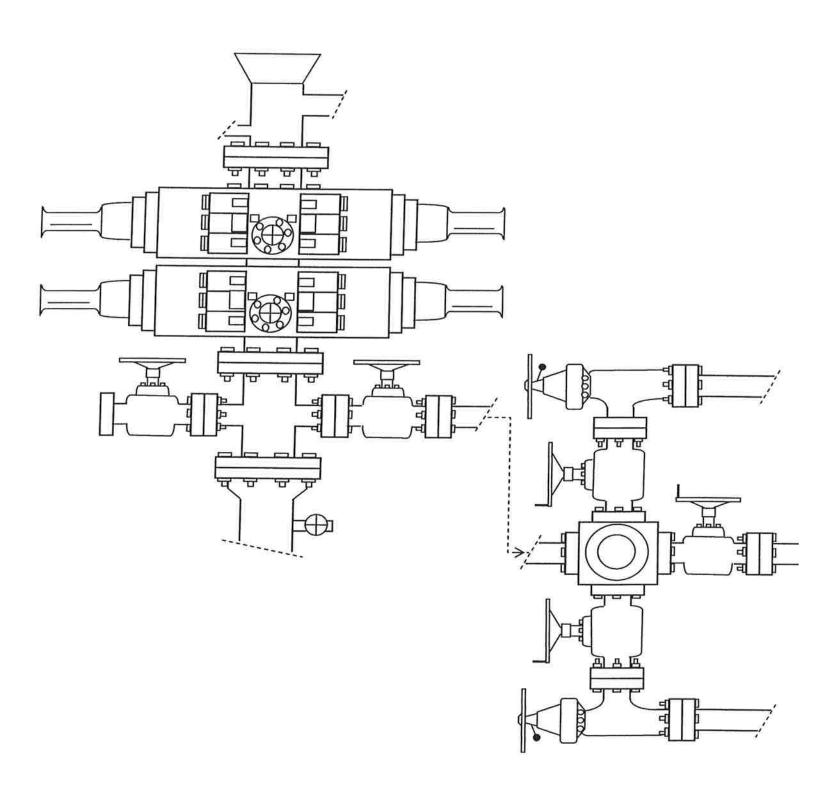
Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #U-19-8-17, Section 29, Township 8S, Range 17E: Lease UTU-76956 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

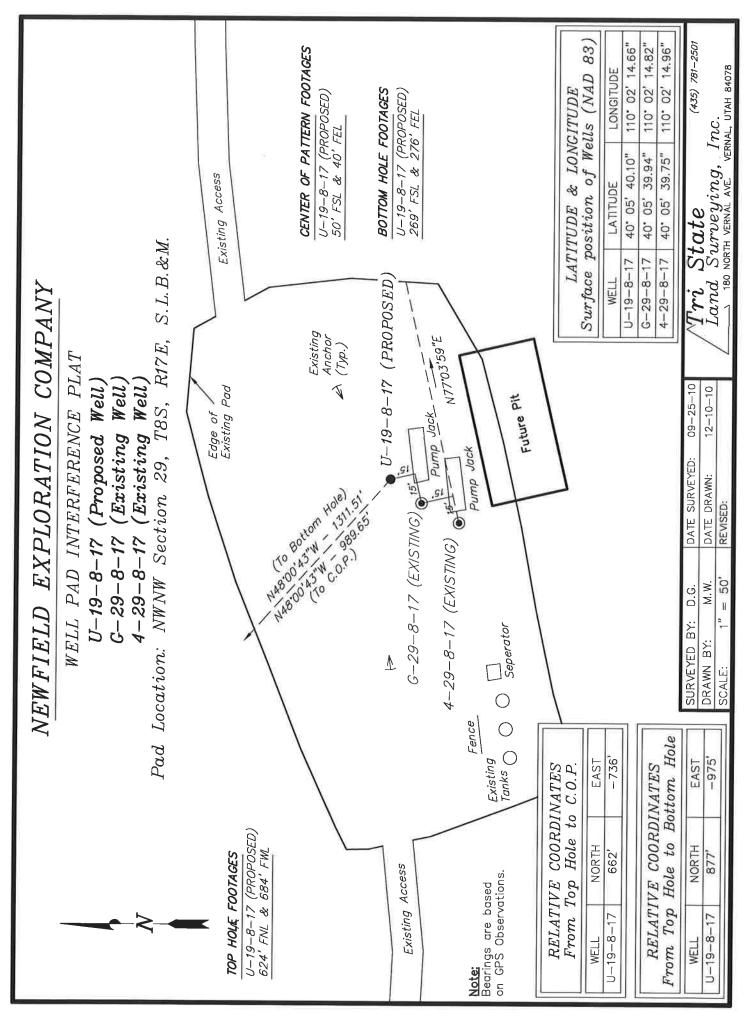
6/8/11	
Date	Mandie Crozier
	Regulatory Specialist
	Newfield Production Company

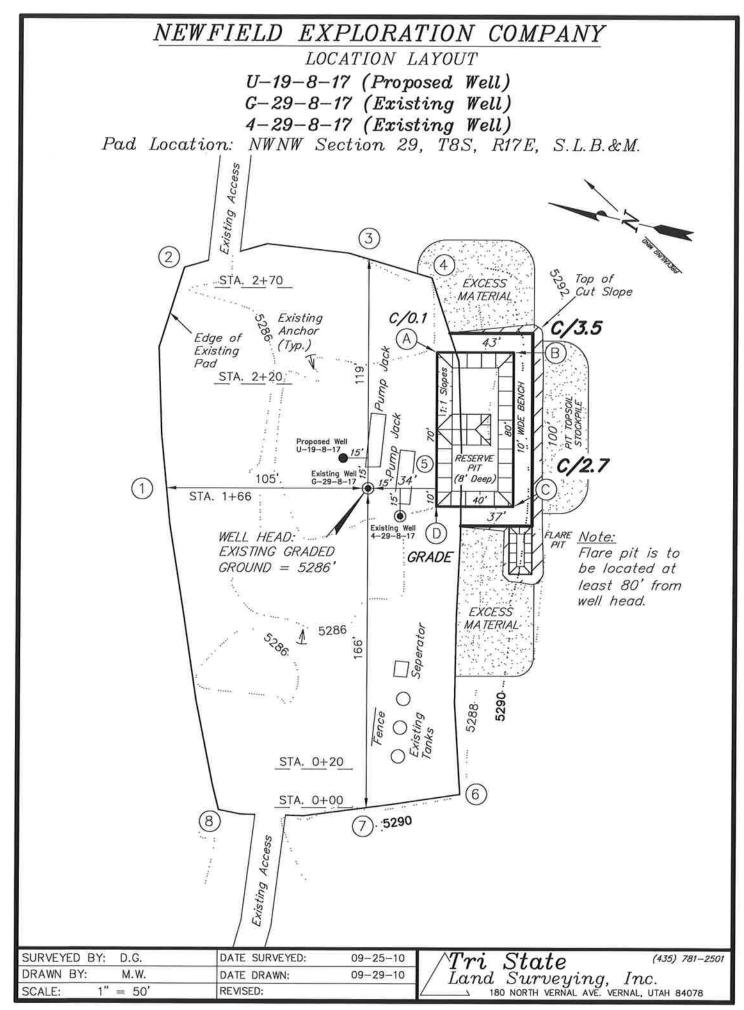
2-M SYSTEM

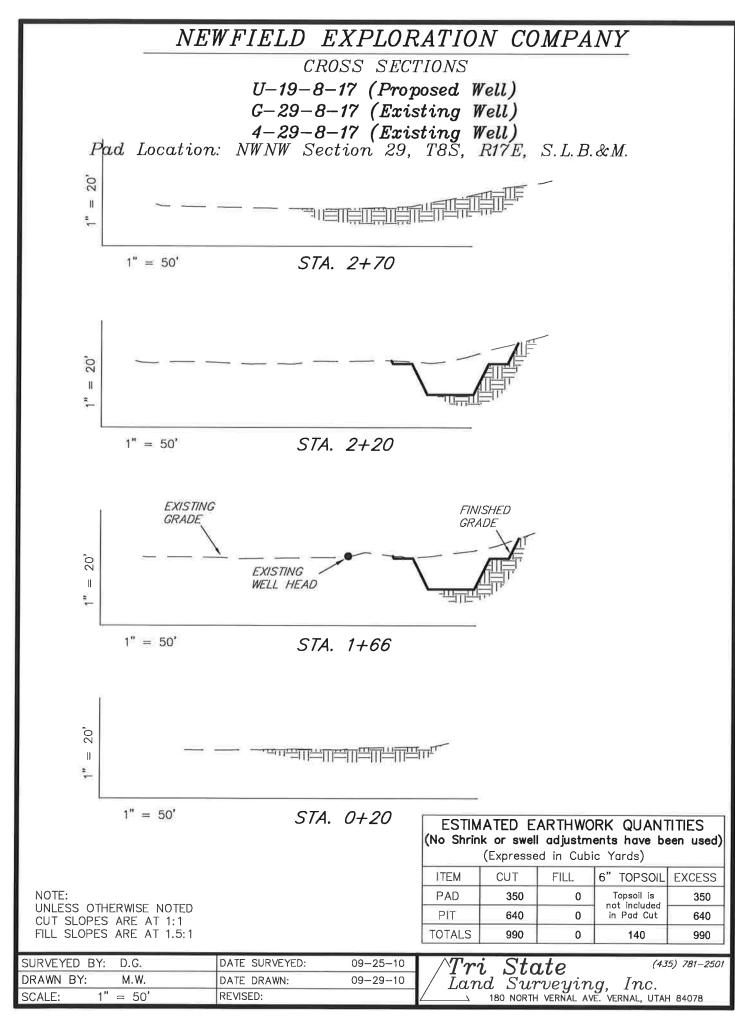
**Blowout Prevention Equipment Systems** 

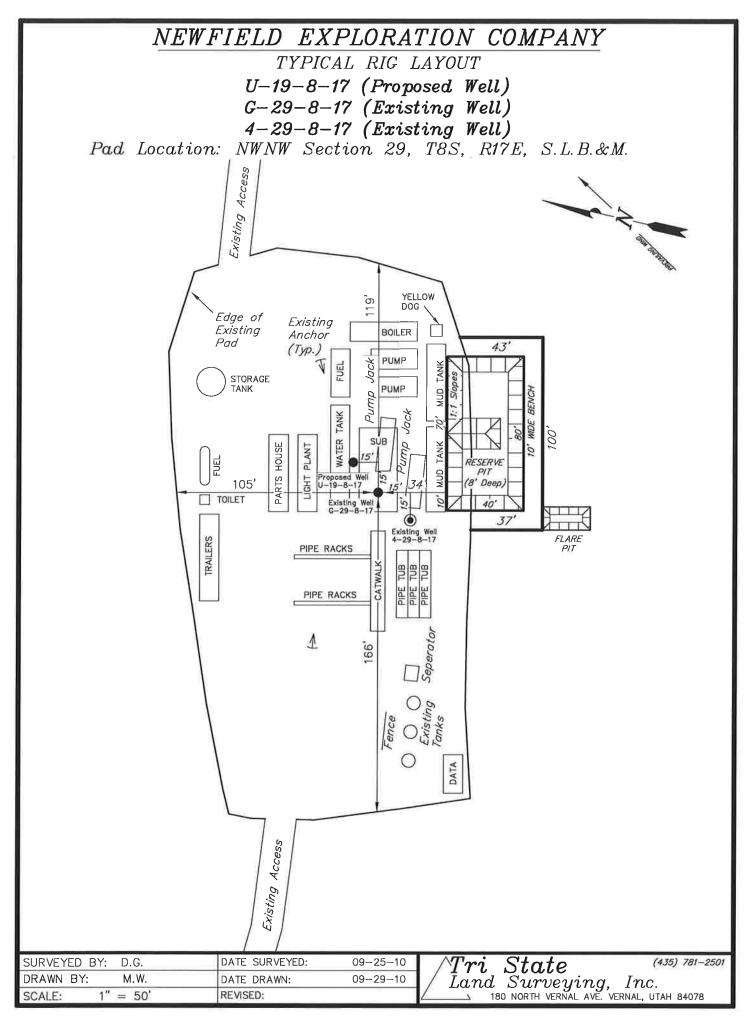


**EXHIBIT C** 











#### VIA ELECTRONIC DELIVERY

June 8, 2011

State of Utah, Division of Oil, Gas and Mining ATTN: Diana Mason P.O. Box 145801 Salt Lake City, UT 84114-5801

RE: Directional Drilling

GMBU U-19-8-17

Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R17E Section 29: NWNW (UTU-76956)

624' FNL 684' FWL

At Target: T8S-R17E Section 19: SESE (UTU-76954)

269' FSL 276' FEL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 6/8/2011, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing preexiting roads and pipelines.

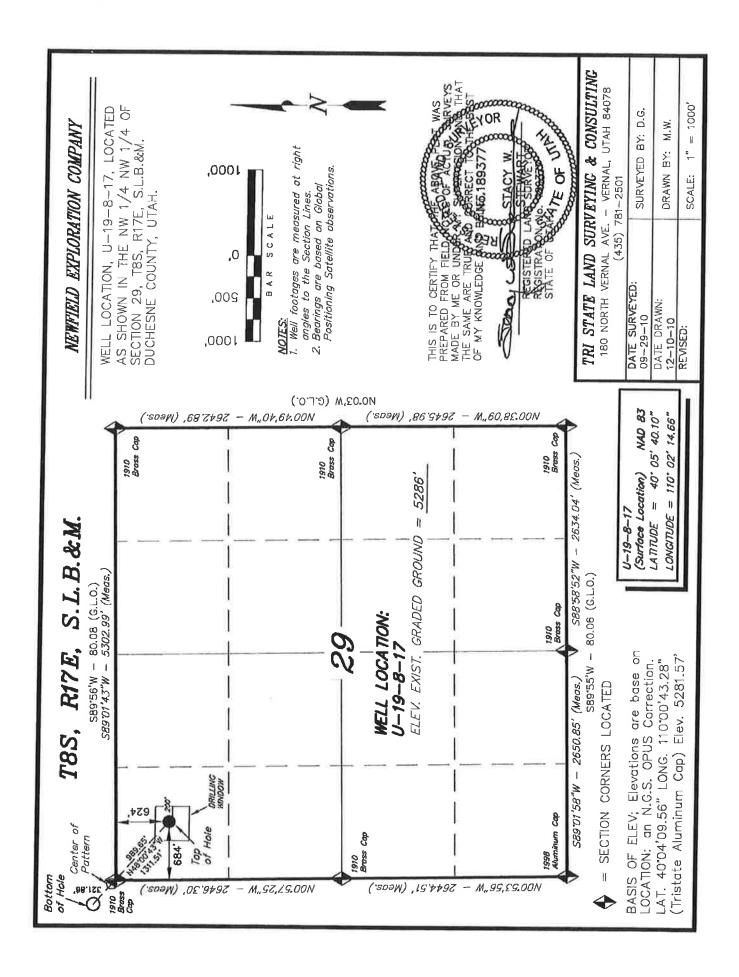
NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4153 or by email at <a href="mailto:pburns@newfield.com">pburns@newfield.com</a>. Your consideration in this matter is greatly appreciated.

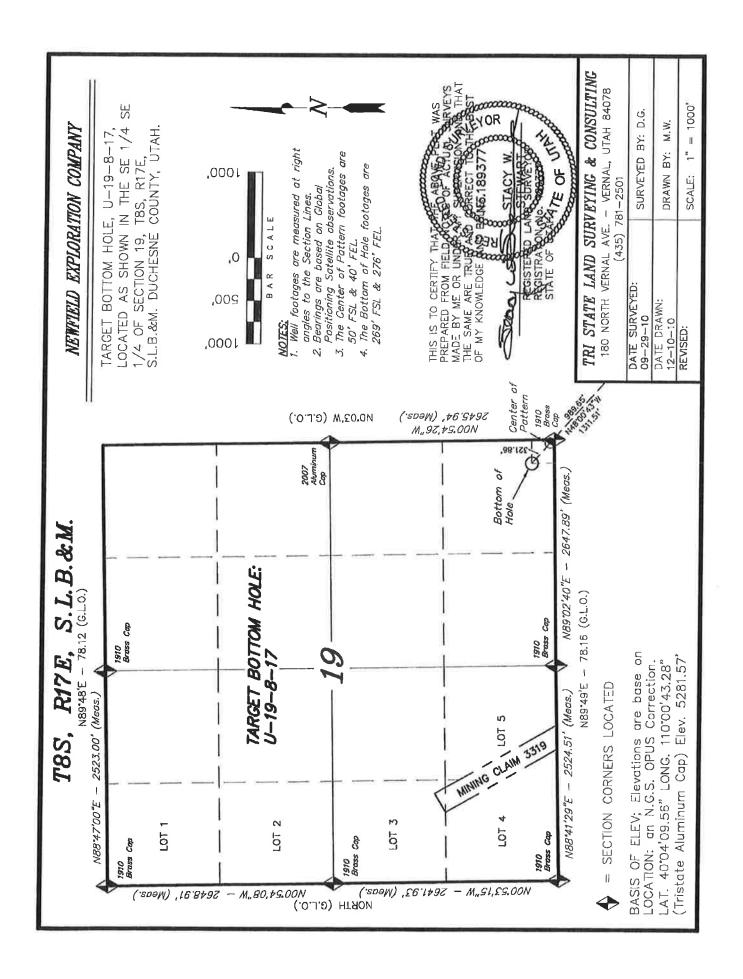
Sincerely,

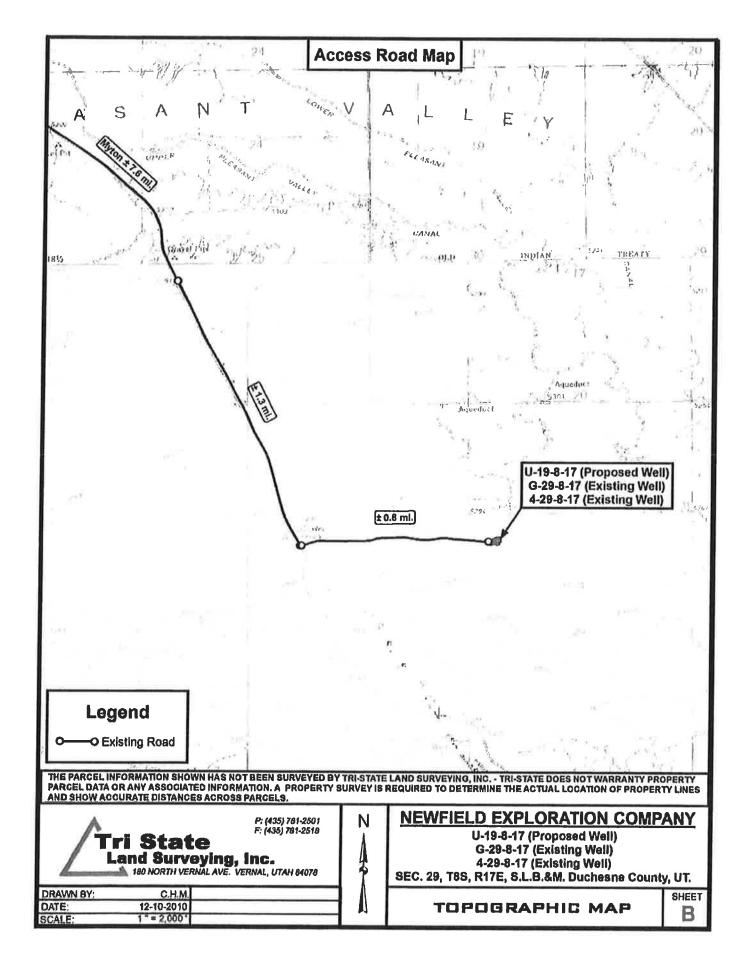
Newfield Production Company

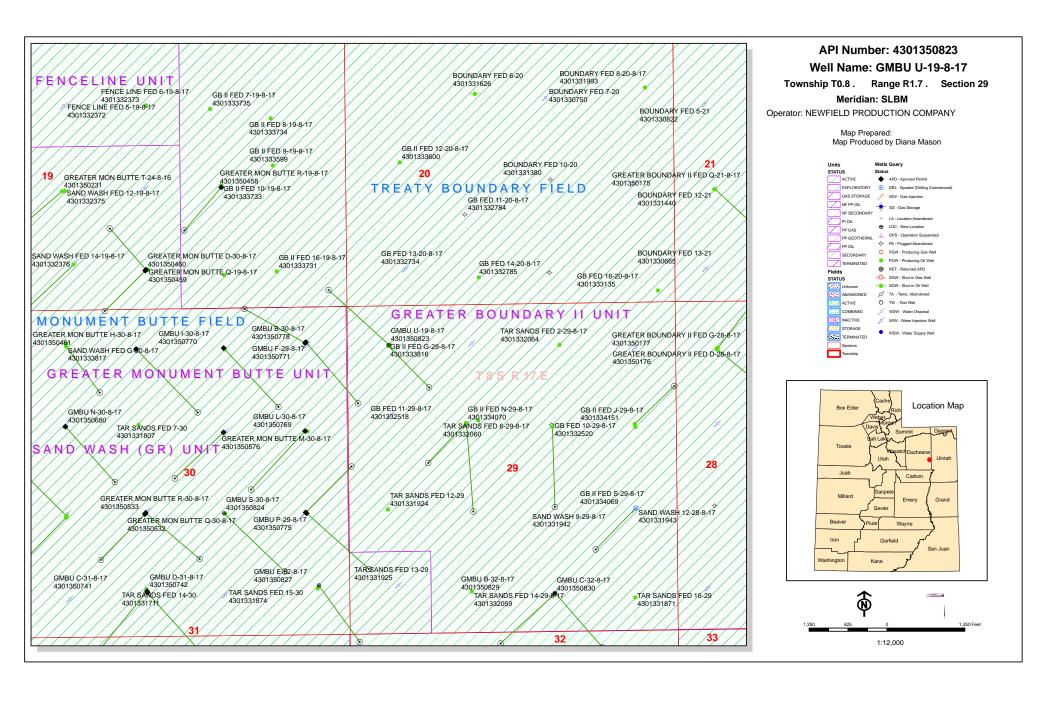
Peter Burns Land Associate

Form 3160-3 (August 2007)		INTER CELEBRA				OMB	APPROVE No 1004-013 July 31, 201	17	
		UNITED STATES RTMENT OF THE EAU OF LAND MAN	INTERIO			5. Lease Serial No. UTU-76956			
		FOR PERMIT TO				6. If Indian, Allote NA	e or Tribe	Name	
la. Type of work:	<b>✓</b> DRILL	REENT	ER			If Unit or CA Agreement, Name and No. Greater Monument Butte			
lb. Type of Well:	✓ Oil Well 🔲 (	Gas Well Other	V	Single Zonc Multi	ple Zone	8. Lease Name and GMBU U-19-8			
2. Name of Operato	Produ	ction Company				9. API Well No.			
3a, Address Rou	le #3 Box 3630, M	rton UT 84052		No. (include area cods) 5) 646-3721		10. Field and Pool, or Monument Bu		гу	
At surface NW	'NW 624' FNL 68	ly and in accordance with and 4' FWL Sec. 29, T8S F FSL 276' FEL Sec. 1	R17E (UT	'U-76956)		t1. Sec., T. R. M. or Sec. 29, T8S I		rvey or Area	
14, Distance in miles a		est town or post office*				12 County or Parish Duchesne		I3. State UT	
15. Distance from pro location to nearest property or lease I (Also to nearest de		9' f/lse, NA f/unit		acres in lease 0.00	17. Spacin	g Unit dedicated to this 20 Acres	well		
18. Distance from pror to nearest well, dri applied for, on this	ling, completed,	Approx. 1,140°				BIA Bond No. on life /YB000493			
21. Elevations (Show 52	whether DF, KDB, R 286' GL	T, GI., etc.)	22 Approx	rimate date work will stan 2 Ortr. 20		23. Estimated duration (7) days from SP	1000	release	
The following complet	ad in accordance with	the requirements of Onshor		achments	414 441.				
<ol> <li>Well plat certified b</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan</li> </ol>	y a registered surveyor			4. Bond to cover the Item 20 above). 5. Operator certific	ne operation	s total. is unless covered by ai rmation and/or plans a		`	
25. Signature	ndie C	Din		(Printed Typed) die Crozier			Date (6)	8/11	
Title Regulatory Spe	ecialist	0							
Approved by (Signature)			Nana	e (Printed Typed)			Date		
Title			Offic	e					
Application approval de conduct operations then Conditions of approval,	eon.	ify that the applicant holds	legalorequ	itable title to those right	s in the subj	eet lease which would o	entitle the a	pplicant to	
Fitte 18 U.S.C. Section 1 States any false, fictition	001 and Title 43 U.S.C. s or fraudulent staten	Section 1212, make it a cri ents or representations as to	me for any p	person knowingly and w within its jurisdiction.	illfully to ma	ike to any department o	or agency o	of the United	
(Continued on no	ge 2)					*(Inch	ructions	on noce 2)	









### **United States Department of the Interior**

#### BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

June 10, 2011

Memorandum

API#

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Greater Monument

Butte Unit, Duchesne and Uintah Counties,

Utah.

WELL NAME

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

LOCATION

(Proposed PZ GREEN RIVER)

43-047-51638 GMBU G-24-8-17 Sec 24 T08S R17E 1528 FNL 0508 FWL BHL Sec 24 T08S R17E 0682 FNL 1125 FWL 43-047-51639 GMBU N-24-8-17 Sec 24 T08S R17E 1543 FNL 0491 FWL BHL Sec 24 T08S R17E 2376 FSL 1318 FWL 43-047-51640 GMBU S-35-8-17 Sec 35 T08S R17E 1956 FSL 0695 FEL BHL Sec 35 T08S R17E 0974 FSL 1549 FEL 43-047-51641 GMBU P-36-8-17 Sec 35 T08S R17E 1962 FSL 0675 FEL BHL Sec 36 T08S R17E 1157 FSL 0290 FWL 43-047-51642 GMBU W-24-8-17 Sec 25 T08S R17E 0771 FNL 1979 FWL BHL Sec 24 T08S R17E 0189 FSL 2469 FEL 43-047-51643 GMBU X-24-8-17 Sec 25 T08S R17E 0784 FNL 1962 FWL BHL Sec 24 T08S R17E 0784 FNL 1962 FWL BHL Sec 24 T08S R17E 0784 FNL 1962 FWL BHL Sec 24 T08S R17E 0784 FNL 1962 FWL BHL Sec 24 T08S R17E 0784 FNL 1962 FWL BHL Sec 24 T08S R17E 0784 FNL 1962 FWL BHL Sec 24 T08S R17E 0784 FNL 1962 FWL BHL Sec 24 T08S R17E 0784 FNL 1962 FWL BHL Sec 24 T08S R17E 0784 FNL 1962 FWL

43-047-51644 GMBU Y-24-8-17 Sec 26 T08S R17E 0846 FNL 0436 FEL

43-047-51645 GMBU H-25-8-17 Sec 25 T08S R17E 1885 FNL 1898 FEL

**RECEIVED: Jun. 20, 2011** 

BHL Sec 24 T08S R17E 0170 FSL 0095 FWL

BHL Sec 25 T08S R17E 1220 FNL 2553 FWL

Page 2

API#	WELL NAME	≣	LOCATION							
(Proposed PZ	GREEN RIV	/ER)								
43-013-50821	GMBU Y-35					R17E R17E				
43-047-51646	GMBU F-25					R17E R17E				
43-047-51647	GMBU 0-25					R17E R17E				
43-047-51648	GMBU G-25					R17E R17E				
43-047-51649	GMBU N-25					R17E R17E				
43-013-50795	GMBU X-1-					R16E R16E				
43-013-50796	GMBU J-11					R16E R16E				
43-013-50823	GMBU U-19					R17E R17E				
43-013-50824	GMBU S-30					R17E R17E				
43-013-50825	GMBU G-33					R17E R17E				
43-013-50826	GMBU H-33					R17E R17E				
43-013-50827	GMBU E-32					R17E R17E				
43-013-50828	GMBU H-31					R17E R17E				
43-013-50829	GMBU B-32					R17E R17E				
43-013-50830	GMBU C-32					R17E R17E		_		
43-013-50831	GMBU F-32					R17E R17E				

Page 3

API# WELL NAME LOCATION

(Proposed PZ GREEN RIVER)

43-013-50832 GMBU K-32-8-17 Sec 33 T08S R17E 1831 FNL 0718 FWL BHL Sec 32 T08S R17E 2378 FSL 0306 FEL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Discreaking the June 1 Digitally signed by Michael L. Coulthard DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael Coulthard@bim.gov, c=US

Date: 2011.06.10 13:37:42 -06'00'

bcc: File - Greater Monument Butte Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:6-10-11

API Well Number: 43013508230000

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 6/8/2011 **API NO. ASSIGNED:** 43013508230000

WELL NAME: GMBU U-19-8-17

**PHONE NUMBER:** 435 646-4825 **OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)

**CONTACT:** Mandie Crozier

PROPOSED LOCATION: NWNW 29 080S 170E **Permit Tech Review:** 

> **SURFACE:** 0624 FNL 0684 FWL **Engineering Review:**

> BOTTOM: 0269 FSL 0276 FEL Geology Review:

**COUNTY: DUCHESNE** 

**LATITUDE:** 40.09450 **LONGITUDE:** -110.03663 UTM SURF EASTINGS: 582122.00 **NORTHINGS: 4438480.00** 

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

**LEASE NUMBER: UTU-76956** PROPOSED PRODUCING FORMATION(S): GREEN RIVER SURFACE OWNER: 1 - Federal **COALBED METHANE: NO** 

**RECEIVED AND/OR REVIEWED: LOCATION AND SITING:**  PLAT R649-2-3. Unit: GMBU (GRRV) Bond: FEDERAL - WYB000493 **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception Oil Shale 190-13 **Drilling Unit** Board Cause No: Cause 213-11 Water Permit: 437478 **Effective Date:** 11/30/2009 **RDCC Review:** Siting: Suspends General Siting **Fee Surface Agreement** 

**Intent to Commingle** ■ R649-3-11. Directional Drill

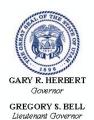
**Commingling Approved** 

**Comments:** Presite Completed

Stipulations: 4 - Federal Approval - dmason

15 - Directional - dmason 27 - Other - bhill

API Well No: 43013508230000



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

# **Permit To Drill**

\*\*\*\*\*\*

Well Name: GMBU U-19-8-17
API Well Number: 43013508230000
Lease Number: UTU-76956
Surface Owner: FEDERAL

Approval Date: 6/20/2011

#### **Issued to:**

NEWFIELD PRODUCTION COMPANY, Rt 3 Box 3630, Myton, UT 84052

#### **Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

API Well No: 43013508230000

# **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:** 

For John Rogers Associate Director, Oil & Gas

# RECEVED

Form 3160-3 (August 2007)

JUN 1 3 2011

FORM APPROVED OMB No. 1004-0137 Expires July 31, 2010

UNITED STATES DEPARTMENT OF THE INTEDIOR

Lease Serial No.

DEFARIMENT OF THE			R B	UTU-76956				
BUREAU OF LAND APPLICATION FOR PERMIT TO	DRILL O	rrenal U	Tan	6. If Indian, Allotee	or Tribe Name			
la. Type of work: DRILL REENT	<del></del>	7. If Unit or CA Agreement, Name and No. Greater Monument Butte						
lb. Type of Well: Oil Well Gas Well Other	✓s	ngle Zone Multi	ple Zone	8. Lease Name and GMBU U-19-8-1				
Name of Operator Newfield Production Company				9. API Well No. 43-013-	50823			
3a. Address Route #3 Box 3630, Myton UT 84052	ļ	). (include area code) 646-3721		10. Field and Pool, or Monument Butt				
4. Location of Well (Report location clearly and in accordance with an At surface NW/NW 624' FNL 684' FWL Sec. 29, T8S F				11. Sec., T. R. M. or B Sec. 29, T8S R	•	Area		
At proposed prod. zone SE/SE 269' FSL 276' FEL Sec. 19 14. Distance in miles and direction from nearest town or post office* Approximately 9.7 miles southeast of Myton, UT	9, T8S R17	E (UTU-76954)		12. County or Parish Duchesne	13. S	tate		
15. Distance from proposed* location to nearest		ncres in lease	17. Spacin	g Unit dedicated to this v				
property or lease line, ft. Approx. 269 1/Ise, NA f/unit (Also to nearest drig. unit line, if any)	600	.00		20 Acres				
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol> Approx. 1,140'	19. Propose 6,7	-		/BIA Bond No. on file NYB000493				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5286' GL	22 Approxi	Approximate date work will start*  23. Estimated duration  (7) days from SPUD to rig release						
The following, completed in accordance with the requirements of Onshor	24. Attac		ttanhad to thi	a form:				
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System I SUPO must be filed with the appropriate Forest Service Office).</li> </ol>		Bond to cover the stem 20 above).     Operator certification.	ne operation	is unless covered by an				
25. Signature Karrolio Chosin		(Printed/Typed) ie Crozier			Date 6/8/	1)		
Title ( ) Regulatory Specialist								
Approved by (Signature)	Name	(Printed Typed) K	(encz	ka	Date JAN I	<b>5</b> 2012		
Citle Assistant Field Manager Lands & Mineral Resources	Office	VERNAL	. FIELD	OFFICE				
Application approval does not warrant or certify that the applicant holds onduct operations thereon. Conditions of approval, if any, are attached.	s legal or equi	able title to those right	ts in the subj	ect lease which would en	ntitle the applicar	itto		
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a critates any false, fictitious or fraudulent statements or representations as to	ime for any pe	rson knowingly and within its junisdiction	villfully to ma	ake to any department or	r agency of the U	Jnited		
(Continued on page 2)	8.81	AN 1 () 2012		*(Instr	uctions on p	age 2)		

JAN I U ZUIZ

DIV. OF OIL, GAS & MINING S 12-28-201

AFMSS#115X50212A



# UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

**VERNAL, UT 84078** 

(435) 781-4400



# CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

API No:

**Newfield Production Company** 

GMBU U-19-8-17

43-013-50823

Location:

Lease No: Agreement: NWNW, Sec. 29, T8S, R17E

UTU-76956

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER: (435) 781-3420** 

# A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	_	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to:ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: U-19-8-17 12/22/2011

## SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

#### Wildlife

- Construction and drilling is not allowed from May 1<sup>st</sup> June 15<sup>th</sup> to minimize impacts during Mountain plover nesting.
- Construction and drilling is not allowed from March 1<sup>st</sup> August 31<sup>st</sup> to minimize impacts during burrowing owl nesting.
- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or
  qualified biologist should be notified so surveys can be conducted. Depending upon the results of
  the surveys, permission to proceed may or may not be recommended or granted by the BLM
  Authorized Officer.
- The reclamation seed mix will incorporate low growing grasses and forbs; and not crested wheatgrass since this negatively impacts mountain plover habitat.
- Hospital mufflers will be installed on new and existing pump jacks at the host well locations.
- Screening will be placed on stacks and on other openings of heater-treaters or fired vessels to prevent entry by migratory birds.

#### Air Quality

- All internal combustion equipment will be kept in good working order.
- Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer.
- Open burning of garbage or refuse will not occur at well sites or other facilities.
- Low bleed pneumatics will be installed on separator dump valves and other controllers.
- During completion, flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
- Well site telemetry will be utilized as feasible for production operations.

#### **Reclamation**

• Reclamation will be completed in accordance with the Newfield Exploration Company Castle Peak and Eight Mile Flat Reclamation Plan on file with the Vernal Field Office of the BLM.

Page 3 of 7 Well: U-19-8-17 12/22/2011

 Appropriate erosion control and revegetation measures will be employed. In areas with unstable soils where seeding alone may not adequately control erosion, grading will be used to minimize slopes and water bars will be installed on disturbed slopes. Erosion control efforts will be monitored by Newfield and, if necessary, modifications will be made to control erosion.

### Seed Mix (Interim and Final Reclamation)

Common Name	Latin Name	Pure Live Seed (Ibs/acre)	Seed Planting Depth
Squirreltail grass	Elymus elymoides	2.0	1/4 - 1/2"
Needle and thread	Hesperostipa comata	2.0	1/2"
grass			
Siberian Wheatgrass	Agropyron fragile	2.0	1/2"
Shadscale saltbush	Atriplex confertifolia	2.0	1/2"
Four-wing saltbush	Atriplex canescens	2.0	1/2"
Gardner's saltbush	Atriplex gardneri	2.0	1/2"
Blue flax (Lewis flax)	Linum lewisii	1.0	1/8 - 1/4"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.

#### Monitoring and Reporting

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

Page 4 of 7 Well: U-19-8-17 12/22/2011

# DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

 Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008). The operator shall also comply with applicable laws and regulations; with lease terms, Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the authorized officer.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- <u>Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in</u> advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily
  drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order
  No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a
  test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's
  log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
  encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
  Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

Page 5 of 7 Well: U-19-8-17 12/22/2011

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to BLM\_UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: U-19-8-17 12/22/2011

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <a href="https://www.ONRR.gov">www.ONRR.gov</a>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written communication
  and must be received in this office by not later than the fifth business day following the date on
  which the well is placed on production. The notification shall provide, as a minimum, the following
  informational items:
  - o Operator name, address, and telephone number.
  - Well name and number.
  - o Well location (1/41/4, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

Page 7 of 7 Well: U-19-8-17 12/22/2011

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
  Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
  future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
  BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
  hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
  be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to
  the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first.
  All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All
  product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in
  accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
  lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
  suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
  obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior approval
  of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
  approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
  of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
  Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
  order that a representative may witness plugging operations. If a well is suspended or abandoned,
  all pits must be fenced immediately until they are backfilled. The "Subsequent Report of
  Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of
  the well bore, showing location of plugs, amount of cement in each, and amount of casing left in
  hole, and the current status of the surface restoration.

# BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By Branden Arnold Phone Number 435-401-0223 Well Name/Number GMBU U-19-8-17 Qtr/Qtr NW/NW Section 29 Township 8S Range 17E Lease Serial Number UTU-76956 API Number 43-013-50823 Spud Notice — Spud is the initial spudding of the well, not drilling out below a casing string.
Date/Time <u>2/28/12</u> <u>9:00</u> AM ⊠ PM □
Casing – Please report time casing run starts, not cementing times.  Surface Casing Intermediate Casing Production Casing Liner Other
Date/Time <u>2/28/12</u> 3:00 AM PM
BOPE Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other  Date/Time AM PM
Remarks

ADDRESS: RT. 3 BOX 3630

OPERATOR: NEWFIELD PRODUCTION COMPANY

OPERATOR ACCT NO.

N2695

MYTON, UT 84052

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	-cc	WE SC	LL LOCAT	TON RG	COUNTY	SPUD DATE	EFFECTIVE DATE
В	99999	17400	43.047.51648	GMBU G-25-8-17	NWNW	25			wintah	3/2/2012	3/2012012
WELL 1 CON	MMENTS:				, , , , , , , , , , , , , , , , , , , ,						
	500	01.1	non.							pa piete de la companya de la compa	
ACTION	CURRENT	BHL	API NUMBER	WELL NAME		WE	LL LOCAT	TON		SPUD	EFFECTIVE
CODE	ENTITY NO	ENTITY NO.			qq	sc	TP	RG	COUNTY	DATE	DATE
В	99999	17400	4301350746	GMBU N-7-9-17	senu	7	98	17E	DUCHESNE	3/1/2012	3/20/2012
( ), ( )	<b>.</b>	i) to	N 1							~ a defendance	
GR	CURRENT	DHI_	API NUMBER	WELL NAME		WE	LL LOCAT			SPUD	EFFECTIVE
ACTION B	ENTITY NO	ENTITY NO			ac	80	q.	स्ट	COUNTY	DATE	
Α	99999	1845	4301351068	ALZADA 11-21-3-2W	NESW	21	38	2W	DUCHESNE	2/29/2012	B/2012012
110	ST(									Charles	
ACTION	CURRENT	NEW	APINUMBER	WELL NAME	QQ		LL LOCAT		COUNTY	SPUD DATE	EFFECTIVE DATE
CODE	ENTITY NO	ENTITY NO		· · · · · · · · · · · · · · · · · · ·	QQ	SC	P	RG	COUNTY	DATE	UATE
В	99999	17400	4304751645	GMBU H-25-8-17	SWNE	25	38	17E	UINTAH	2/29/2012	3/20/2012
										**************************************	-
ACTION	CURRENT	BHL	API NUMBER	WELL NAME		\WE	LL LOCAT	ION		SPUO	EFFECTIVE
CODE	ENTITY NO	ENTITY NO	777750000	Tage in the	QQ	SC	TP	RG	COUNTY	DATE	DATE
В	99999	17400	4301350823	GMBU U-19-8-17	NWNW	29	85	17E	DUCHESNE	2/28/2012	3/20/201
											47
	71.7	BHL	<u> 519 Sese</u>								5555505
ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	aa	SC SC	LI, LOCAT	ION RG	COUNTY	SPUD DATE	EFFECTIVE DATE
В	99999	17400	4304751635	GMBU Q-25-8-17	swsw	25	85	17E	wintah	3/5/2012	3/20/2012
									COTTO		
GR	RV	BHL	nesw							7	
	DES (See instructions on to w entity for new well (sing				RECEIV				10011	?	
8 - 'We	Il to existing entity (group	or unit well)			, , , , , , , , , , , , , , , , , , , ,				Signature		Jentri Park
	n one existing entity to and I from one existing entity t				MAR 08 2	012					00100140
E - Iher	(explain in comments sec	otion)			* ** 600 -				Production Clerk		03/08/12

FORM 3160-5 (August 2007)  DEPARTMENT OF THE IN' BUREAU OF LAND MANAG SUNDRY NOTICES AND REPOR Do not use this form for proposals to dabandoned well. Use Form 3160-3 (APD  SUBMIT IN TRIPLICATE - Other Inst  1. Type of Well Oil Well Gas Well Other  2. Name of Operator NEWFIELD PRODUCTION COMPANY  3a. Address Route 3 Box 3630 Myton, UT 84052  4. Location of Well (Footage, Sec., T., R., M., or Survey Description of T8S R17E)	FORM APPROVED OMB No. 1004-0137 Expires: July 31,2010  5. Lease Serial No. USA UTU-76956 6. If Indian, Allottee or Tribe Name.  7. If Unit or CA/Agreement, Name and/or GMBU 8. Well Name and No. GMBU U-19-8-17 9. API Well No. 4301350823 10. Field and Pool, or Exploratory Area GREATER MB UNIT 11. County or Parish, State DUCHESNE, UT	
12. CHECK APPROPRIATE BOX(ES	) TO INIDICATE NATURE OF N	
TYPE OF SUBMISSION	TYPE OF ACTION	
□ Notice of Intent □ Subsequent Report □ Casing Repair □ Change Plans □ Convert to Injector  13. Describe Proposed or Completed Operation: (Clearly state all pertinent deta proposal is to deepen directionally or recomplete horizontally, give subsurfar Bond under which the work will be performed or provide the Bond No. on of the involved operations. If the operation results in a multiple completion Final Abandonment Notices shall be filed only after all requirements, includinspection.)  On 2/28/12 MIRU Ross #29. Spud well @8:00 AM. □ @ 317.17. On 2/29/12 cement with 160 sks of class 'yield. Returned 7 barrels cement to pit. WOC.	Fracture Treat Reclama New Construction Recompl Plug & Abandon Tempora Plug Back Water Di Reclama Recompl Water Di Recompl Water Di Recompl Water Di Reclama Recompl Water Di Recompl Water Di Reclama Recompl Water Di Recompletion in a new interval, a Form 3160-4 Reclama Reclama Recompletion in a new interval, a Form 3160-4 Reclama Reclama Reclama Recompletion in a new interval, a Form 3160-4 Reclama Reclama Reclama Recompletion in a new interval of the profits or recompletion in a new interval, a Form 3160-4 Reclama Reclama Reclama Reclama Recompletion in Tempora Reclama Reclama Reclama Reclama Recompletion in Tempora Water Di Reclama Reclama Reclama Reclama Reclama Recompletion in Tempora Water Di Reclama Rec	other Spud Notice  Isposal  Sed work and approximate duration thereof. If the sof all pertinent markers and zones. Attach the shall be filed within 30 days following completion shall be filed once testing has been completed. Derator has determined that the site is ready for final to TIH W/ 7 Jt's 8 5/8" J-55 24# csgn. Set
I hereby certify that the foregoing is true and correct (Printed/ Typed)  Branden Arnold  Signature	Title  Date	
	03/05/2012 R FEDERAL OR STATE OFFICE	CE USE

which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

Title

RECEIVED

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease

# Casing / Liner Detail

Well	GMBU U-19-8-17
Prospect	Monument Butte
Foreman	
Run Date:	2/28/2012
String Type	Surface, 8.625", 24#, J-55, LTC (Generic)

# - Detail From Top To Bottom -

Depth	Length	JTS	Description	OD	ID
					<del> 1</del>
315.75	1.42		Wellhead		
317.17	-2.00	-	Cut off		
13.00	259.75	6	8 5/8" Surface Casing	8.620	
272.75	42.10	1	Shoe Joint	8.620	
314.85	0.90	1	Guide Shoe	8.620	
315.17			Total KB		

					Cement Detail								
ement Company: BJ													
Slurry	# of Sacks	Weight (ppg)	Yield	Yield Volume (ft³) Description - Slurry Class and Additives									
Slurry 1	160	15.8	1.17	187.2	Class "G"+2%CaCl								
	L					The state of the s							
tab-In-Jo	b?		No			Cement To Surface?	Yes						
HT:		0				Est. Top of Cement:	0						
<del></del>	nitial Circulation Pressure: 171					Plugs Bumped?	Yes						
nitial Circu	ulation Rate:		4			Pressure Plugs Bumped:	475						
inal Circu	lation Pressu	re:	146			Floats Holding?							
inal Circu	lation Rate:		4			Casing Stuck On / Off Bottom?	No						
isplacem	ent Fluid:	V	Vater			Casing Reciprocated?	No						
isplacem	ent Rate:		4			Casing Rotated?	No						
isplacem	ent Volume:		16.5			CIP:	9:51						
lud Retur	ns:		Fuli			Casing Wt Prior To Cement:	•						
entralizer	Type And Pla	acement:				Casing Weight Set On Slips:							
liddle of fi	rst, top of sec	ond and third f	or a total	of three.									



Sundry Number: 25461 API Well Number: 43013508230000

	STATE OF UTAH		FORM 9
ı			5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-76956
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
current bottom-hole depth, i	reenter plugged wells, or to drill horizo		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: GMBU U-19-8-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		9. API NUMBER: 43013508230000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT	, 84052 435 646-4825	PHONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0624 FNL 0684 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH		dian: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
			RECOMPLETE DIFFERENT FORMATION
Date of Spud:			
✓ DRILLING REPORT			
Report Date: 4/23/2012		SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
	_	-	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 15, 2012
NAME (PLEASE PRINT) Jennifer Peatross	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING  SUNDRY NOTICES AND REPORTS ON WELLS  Use this form for proposals to drill new wells, significantly deepen existing wells below to tottom-hole depth, reenter plugged wells, or to drill horizontal interals. Use APPLICATION CRIMIT TO DRILL form for such proposals.  TO WELL  OF OPERATOR: BLD PRODUCTION COMPANY  430 13508230000  PRED and POOL WILDCAT: MONUMENT BUTTE  147 FN. 0084 FWIL  147 FN. 0084 FWIL  147 FN. 0084 FWIL  147 FN. 0084 FWIL  147 FN. 0085 FWIL  147 FN. 0085 FWIL  147 FN. 0085 FWIL  147 FN. 0086 FWIL  148 FN. 0086 FWIL  148 FN. 0086 FWIL  148 FN. 0086 FWIL  149 FN. 0086 FWIL  140 FN. 0086 FWIL  140 FN. 0086 FWIL  141 FN. 0086 FWIL  142 FN. 0086 FWIL  144 FN. 0086 FWIL  145 FN. 0086 FWIL  145 FN. 0086 FWIL  146 FN. 0086 FWIL  147 FN. 0086 FWIL  148 FN. 0086 FWIL  148 FN. 0086 FWIL  149 FN. 0086 FWIL  149 FN. 0086 FWIL  141 F		
SIGNATURE	100 0 10 1000	DATE	
N/A		5/4/2012	

Sundry Number: 30787 API Well Number: 43013508230000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-76956
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	pposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: GMBU U-19-8-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	DMPANY		9. API NUMBER: 43013508230000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT	, 84052 435 646-4825	PHONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0624 FNL 0684 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 29 Township: 08.0S Range: 17.0E Meri	dian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:			
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
✓ DRILLING REPORT	L TUBING REPAIR		☐ WATER DISPOSAL ☐
Report Date: 4/23/2012	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
4/20/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:
The above well w hours. Pro	completed operations. Clearly show a vas placed on production on oduction Start Sundry re-ser	04/23/2012 at 13:30 at 10/07/2012.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 09, 2012
NAME (PLEASE PRINT) Kaci Deveraux	<b>PHONE NUMB</b> 435 646-4867	ER TITLE Production Technician	
SIGNATURE N/A		<b>DATE</b> 10/7/2012	
13/ <i>1</i> 7		IU/1/2012	

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

5. Lease Serial No.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

															-/69	o6		
la. Type of V	Well	✓Oil ✓ Nev		G	as Well	Dry Deepen D	Ot	her	□ Diff	Degree				6. If NA	Indiar	, Allottee or	Tribe	Name
o. Type or	completion.	Oth			VOIR OVCI			ug Dack I		. Resvi.,				7. U		CA Agreemer	nt Na	me and No.
2. Name of NEWFIELI	Operator		COM	DANV										8. Le	ase N	ame and Well	No.	
3. Address	J EXI LOI	VATION	COIVI	FANT				  3a	Phone N	No (incl	ude ar	ea code	1		BU U- FI We	19-8-17		
	1401 17TH S							(4:	35) 646					43-0	13-50	0823		
4. Location	or well (Re	грогт госа	non cu	eariy and	i in accora	ance with Feder	ai re	equirement	's)*							nd Pool or Ex NT BUTTE		atory
At surface	<sup>€</sup> 624' FNI	L & 684'	FWL	(NW/N	W) SEC.	29, T8S, R17I	E (L	ITU-7695	66)					11. S	Sec., T Survey	., R., M., on E or Area SEC.	Block . 29, 7	and F8S, R17E
At top pro	d. interval r	eported be	elow 3	31' FNL	& 18' FW	/L (NW/NW) S	SEC	. 29, T8S	s, R17E	(UTU-	76956	3)				or Parish		13. State
At total de	<sub>epth</sub> 242' F	SL & 28	86' FE	L (SE/S	SE) SEC.	19, T8S, R17	E (l	JTU7695	4) BH	tl. b	ı HE	M		סטם	HES	NE		UT
14. Date Sp 02/28/201	udded		15.		D. Reache			16. <u>D</u> a	ate Comp	oleted 0	4/23/	2012				ons (DF, RK	B, R	T, GL)*
18. Total De	pth: MD		100	3120120				6686				o Prod. epth Br	dge Plu		MD	5299' KB		
21. Type El		D 6556' er Mechar	ical L	os Run	(Submit cor		TVI	06542			22 V	Was well	cored?	Z N	TVD	Yes (Submi	t ana	lveie)
DUAL INC	GRD, SP	, COMP	. DEN	ISITY,C	OMP. NE	EUTRON,GR,	CAL	IPER, C	МТ ВО		7	Was DST		<b>✓</b> N	。Ē	Yes (Submi	t rep	ort)
23. Casing Hole Size	and Liner R		<i>eport a</i> t. (#/ft,			<u> </u>	<u>,,  </u>	Stage Cer	menter	No.	of Sks	s. &	Slurry	Vol.				A 170 " 1
12-1/4"	8-5/8" J-			0	op (MD)	Bottom (MI	"	Dep		Туре	of Ce	ment	(BI		Ce	ment Top*		Amount Pulled
7-7/8"	5-1/2" J-		# .5#	0		6690'	-			160 C 255 P					Surfa	200		
		10 10					1			480 50					Julia	100		
24. Tubing	Pagard																	
Size		Set (MD)	Pac	ker Dept	h (MD)	Size		Depth Set	(MD)	Packer	Depth	(MD)	Siz	ze	De	oth Set (MD)	Т	Packer Depth (MD)
2-7/8"		5371'	TA @	2 5260														
25. Produci	ng Intervals Formation			Т	ор	Bottom	2		foration lorated In			T	ize	No. I	Ioles	_	De	erf. Status
A) Green		-		4777'	<u> </u>	5301'		4777-479		tor var		.36"	IZC	9	10103	<del>-</del>	10	II. Status
B)								5228-530	01'			.34"		9				
C)																		
D)																		
27. Acid, F.	racture, Trea Depth Inter		ement	Squeeze,	etc.					Amount	and Ts	me of M	[aterial					
4777-530				Frac w/	60736#s	20/40 white s	sand	in 524 b						es.				
									****									
28. Product	ion Intorn	-1 A																<u></u>
Date First		Hours	Test	<u></u>	Oil	Gas	Wa	ter	Oil Gra	vity	Ga	as	Pro	luction M	lethod	<u> </u>		
Produced		Tested	Proc	duction	BBL	MCF	BBI		Corr. A.	PΙ		avity					24' F	RHAC Pump
4/23/12 Choke	5/3/12 Tbg. Press.	Cea	24 I	Jr.	67 Oil	Gas	23 Wa		Gas/Oil		137	ell Statu						
Size	Flwg. SI	esg. Press.	Rate		BBL	MCF	BB		Ratio		- 1	RODU						
28a. Produc	tion - Interv	val B							.l									
Date First	Test Date	Hours	Test		Oil	Gas	Wa		Oil Gra		Ga		Pro	duction M	lethod			
Produced		Tested	Proc	duction	BBL	MCF	BB	L	Corr. A.	rı	Gı	ravity			ı		ন লয়	
Choke	Tbg. Press.	Csg.	24 I	Hr.	Oil	Gas	Wa	ter	Gas/Oil		W	ell Statu	IS			RECE	V	ED
Size	Flwg. SI	Press.	Rate		BBL	MCF	BB		Ratio							007 19	2	312
4.0	L		1								!							

	uction - Intel Test Date		T	lo:1	lo	NTT-4-	0.10	•.			
Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gi Corr.		Gas Gravity	Production Method	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/C Ratio	Pil	Well Status		
	uction - Inte						1				7 - 74
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil G Corr.		Gas Gravity	Production Method	
	Tbg. Press. Flwg. SI	Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/C Ratio	Pil	Well Status	,	
29. Dispos	sition of Ga	s (Solid, u	sed for fuel, ve	ented, etc.)							
USED FOR											
30. Sumn	nary of Porc	us Zones	(Include Aqu	ifers):					31. Formati	on (Log) Markers	
Show a includi recover	ng depth int	zones of erval teste	porosity and c	contents the	ereof: Cored i ol open, flowin	ntervals and all d ng and shut-in pr	drill-ster ressures	n tests, and	GEOLOGI	CAL MARKERS	
Forn	Formation Top Bottom Descri					riptions, Contents, etc.			Name		Top  Meas. Depth
GREEN RIV	VER	4777'	5301'						GARDEN GU GARDEN GU		4167' 4377'
									GARDEN GU POINT 3	LCH 2	4502' 4801'
									X MRKR Y MRKR		5040' 5073'
									DOUGLAS C		5207' 5472'
									B LIMESTON CASTLE PEA		5620' 6073'
									BASAL CARE WASATCH	CONATE	6533' 6663'
32 Addit	ional remar	es (include	e plugging pro	ocedure).							
JZ. Addit	ionai romai,	ns (meruor	, bingging bic	codure).							
33. Indica	ate which ite	ems have t	een attached	by placing	a check in the	appropriate box	es:				
		-	s (1 full set req g and cement v	,		Geologic Report Core Analysis		DST Repo	ort	☑ Directional Survey	
34. I here	by certify the	nat the for	going and att	ached info	rmation is con	nplete and correc	et as dete	ermined from	all available r	ecords (see attached instructions)	*
		_	ennifer Peat					Production		·	
	ignature	Y L	UNGS				Date _	06/13/2012			
Title 18 U	J.S.C. Section	n 1001 an	d Title 43 U.S	S.C. Section	n 1212, make ons as to any m	it a crime for any atter within its ju	y person urisdicti	knowingly an	nd willfully to	make to any department or agence	cy of the United States any

(Form 3160-4, page 2) (Continued on page 3)

# **Daily Activity Report**

# Format For Sundry GMBU U-19-8-17 2/1/2012 To 6/30/2012

4/13/2012 Day: 1

Completion

Rigless on 4/13/2012 - Run CBL, Press test BOPs, Valves & Csg. Perforate 1st stage. - NU 6" 5K Cameron BOP & Weatherford Frac Valve. RU Perforators LLC WLT w/ Crane & run CBL. WLTD @ 6632' & cement top @ 0'.RU H/O truck & pressure test casing, blind rams, csg & casing valves to 4300 psi. Press test Top of Frac Valve & Lubricator to 5000 psi Perforate stage #1, D sds @ (5300-01', 5228-30') w/ 3 1/8" Disposible guns ( 16 gram .34" EH 22" pen w/120° phasing) w/ 3 spf for total of 9 shots. RD H/O truck, Weatherford & The Perforators WLT & mast. Wait on frac crew EWTR124 BBLS

Daily Cost: \$0

**Cumulative Cost:** \$26,321

## 4/16/2012 Day: 2

Completion

Rigless on 4/16/2012 - Frac stg 1-perf & frac stg 2, flowback well, set kill plug @ 4700'. - Flowback well, well died in 60 min. approx. 100 bbls returned. - Test lubricator-good, set kill plig @ 4700'. - Safety meeting, pressure test Baker Hughes iron to 5200#-good test - Frac stg 1-RU Perforators wireline, perforate stg2-frac stg 2.

Daily Cost: \$0

**Cumulative Cost:** \$72,933

#### 4/18/2012 Day: 3

Completion

WWS #1 on 4/18/2012 - MIRUSU, pressure test begin RIH w/chomp bit & tbg - MIRUSU-pressure @ 0. ND frac valve, NU schaefer BOPs on top of Camerons. Wait on 4-star to arrive for psi test. Test stack-good. PU & RIH w/2 7/8" pump off bit sub, new 4 3/4" chomp bit, 110 jts. EOT @ 3444'. SWIFN

Daily Cost: \$0

**Cumulative Cost:** \$81,925

#### 4/19/2012 Day: 4

Completion

WWS #1 on 4/19/2012 - Start drill out plugs/twist off bit sub, POOH to confirm/RIH w/overshot - Wait on RBS tool hand to arrive w/fishing tools - TIH w/ 2 3/8" overshot, bumper sub & 80 jts tbg. EOT @ 2516'. SWIFN - No pressure on well-PU pipe, tag KP @ 4700', RU RBS pwr swvl & rig pump, drill out in 2hrs 10min-tag @ 4777', drill for 2hrs, not making hole. Rack back swvl, TOOH w/ 2 7/8" tbg, 153 jts-half of bit sub & bit missing

Daily Cost: \$0

**Cumulative Cost:** \$88,315

## 4/20/2012 Day: 5

Completion

WWS #1 on 4/20/2012 - Successfully fish broken pump off bit sub & bit, Rih w/tbg & drill out plugs - rack out swvl, LD 2 jts, eot @ 6606', start swab in morning. SWIFN - 0 psi on well-TIH w/72 jts, RU RBS pwr swvl, circ well w/40bbl, latch onto fish top, rack back swvl, TOOH w/150 jts tbg, overshot & fish. MU new pump off bit sub, RIH w/bit, bit sub & 153 jts tbg, RU swvl,

drill out kill plug (18min), tag fill @ 4808', clean out to plug @ 4870', drill out plug (33min), tag fill @ 6512', clean out to PBTD @ 6686, 174' of sand. Circ well clean.

Daily Cost: \$0

Cumulative Cost: \$95,120

#### 4/23/2012 Day: 6

Completion

WWS #1 on 4/23/2012 - swab, TOOH w/tbg, TIH w/BHA & tbg - o psi on well, RU swab, RIH, fluid lvl @ 600', make 18 runs endinf FL @ 1900', Rec. 154 bbls, no sign of oil or gas, make 3 more runs, FL @ 1900', rec. 24 bbls, no sand in returns, little gas, no oil. RD swab, PU 3 jts, no new fill. PBTD @ 6686'. Fill w/40 bbls, circ 160 bbls, returns are clean. LD 43 jts, TOOH w/171 jts, LD bit & bit sub, TIH w/NC, 2 jts, PSN, 5 1/2" TAC, 168 jts-SWIFN

**Daily Cost:** \$0

Cumulative Cost: \$101,135

#### 4/24/2012 Day: 7

Completion

WWS #1 on 4/24/2012 - land tbg, RIH w/production string-PWOP - 0 psi on well, RD floor, ND BOPs, set TAC @ 5272.60' w 18000# tension. Land tbg w/hanger, button up WH, PSB @ 5306.80', EOT @ 5371.16', flush tbg w/40bw, x-over to rod eq. PU/prime & RIH w/pump & rods, fill w/5bw, stroke test to 800# w/unit-good test. RDMO. PWOP @ 1330, 144" sl, 5spm.

Finalized

Daily Cost: \$0

Cumulative Cost: \$181,658

Pertinent Files: Go to File List



# **NEWFIELD EXPLORATION**

USGS Myton SW (UT) SECTION 29 T8S, R17E U-19-8-17

Wellbore #1

**Design: Actual** 

# **Standard Survey Report**

09 April, 2012





Survey Report



Company:

**NEWFIELD EXPLORATION** 

Project:

USGS Myton SW (UT)

Site: Well: SECTION 29 T8S, R17E U-19-8-17

Wellbore:

Actual

Wellbore #1

Local Co-ordinate Reference:

Well U-19-8-17

U-19-8-17 @ 5298.0ft (Capstar 328)

MD Reference:

TVD Reference:

U-19-8-17 @ 5298.0ft (Capstar 328)

North Reference:

Minimum Curvature

Survey Calculation Method: Database:

EDM 2003.21 Single User Db

Design: Project

USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System:

US State Plane 1983

Geo Datum: Map Zone:

North American Datum 1983

Utah Central Zone

System Datum:

Mean Sea Level

Site

From:

SECTION 29 T8S, R17E, T8S R17E

Site Position:

Lat/Long

Northing: Easting:

7,204,529.47 ft

Latitude: Longitude: 40° 5' 20.491 N

Position Uncertainty:

2,051,571.00ft

110° 1' 49.208 W

0 0 ft

Slot Radius:

**Grid Convergence:** 

0.94°

Well

U-19-8-17, SHL LAT: 40 05 40.10 LONG: -110 02 14.66

**Well Position** 

+N/-S

+E/-W

0.0 ft 0.0 ft

Northing:

Easting:

7,206,480.86 ft 2,049,560.82 ft

Latitude: Longitude:

40° 5' 40.100 N 110° 2' 14.660 W

**Position Uncertainty** 

0.0 ft

Wellhead Elevation:

5,298.0 ft

Ground Level:

5,286.0 ft

Wellbore

Wellbore #1

**Magnetics** 

**Model Name** 

Sample Date

Declination

Dip Angle

Field Strength

(nT)

IGRF2010

12/7/2010

11.38

65.85

52,354

Design

Audit Notes:

Version:

1.0

Actual

Phase:

**Vertical Section:** 

Depth From (TVD) (ft)

0.0

ACTUAL

+N/-S +E/-W

Tie On Depth:

0.0 Direction

(°)

311.99

(ft) (ft) 0.0 0.0

**Survey Program** 

4/9/2012

From (ft)

To (ft)

Survey (Wellbore)

**Tool Name** 

Description

376.0

6,700.0 Survey #1 (Wellbore #1)

MWD

MWD - Standard

ourvey									
Measured Depth In (ft)	clination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	医海绵性 医腹部外骨骨骨骨折 化二氯甲烷 医电流电流 化二氯	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
376.0	1.10	30.10	376.0	3.1	1.8	0.7	0.29	0.29	0.00
438.0	1.23	17.10	438.0	4.3	2.3	1.1	0.47	0.21	-20.97
468.0	1.60	353.90	468.0	5.0	2.4	1.6	2.25	1.23	-77.33
499.0	1.50	345.30	498.9	5.8	2.2	2.3	0.82	-0.32	-27.74
530.0	1.70	334.90	529.9	6.6	1.9	3.0	1.13	0.65	-33.55
560.0	1.80	325.90	559.9	7.4	1.5	3.9	0.97	0.33	-30.00
591.0	2.00	305.70	590.9	8.1	0.7	4.9	2.24	0.65	-65.16
621.0	2.40	303.60	620.9	8.8	-0.2	6.0	1.36	1.33	-7.00
652.0	2.90	301.40	651.8	9.6	-1.4	7.4	1.65	1.61	-7.10
682.0	3.40	308.90	681.8	10.5	-2.8	9.1	2.16	1.67	25.00
712.0	3.80	311.20	711.7	11.7	-4.2	11.0	1.42	1.33	7.67
743.0	4.30	306,80	742.7	13.1	-5.9	13.2	1.90	1.61	-14.19



Survey Report



Company:

NEWFIELD EXPLORATION

Project:

USGS Myton SW (UT)

Site:

SECTION 29 T8S, R17E

Well:

U-19-8-17

Wellbore: Design: Wellbore #1 Actual Local Co-ordinate Reference:

Survey Calculation Method:

Well U-19-8-17

TVD Reference:

U-19-8-17 @ 5298.0ft (Capstar 328)

MD Reference:

U-19-8-17 @ 5298.0ft (Capstar 328)

North Reference:

Minimum Curvature

Database:

EDM 2003.21 Single User Db

Dopth   Inclination   Azimuth   Dopth   +N-S   +E/AV   Section   Rais   Raiss   Rai	Turn	Build	Dogleg	Vertical				And the second second		
773.0	Rate	A Company of the Comp	and the first term of the second of				and the second s			
894.0 5.10 315.40 803.5 16.5 9.7 18.2 1.41 0.97 835.0 5.70 314.10 834.3 18.5 -11.7 21.1 1.98 1.94 880.0 6.80 313.70 879.0 21.9 -15.3 26.0 2.45 2.44 925.0 7.80 314.10 923.7 25.9 -19.4 31.7 2.23 2.22 970.0 8.80 315.00 968.2 30.4 -24.0 38.2 2.24 2.22 1,016.0 96.0 315.30 1,013.6 35.6 -29.2 45.6 1.74 1.74 1,081.0 10.70 314.70 1.057.9 41.2 34.8 53.5 2.46 2.44 1,108.0 11.40 313.10 1,102.1 47.2 -41.0 62.1 1.70 15.6 1,151.0 12.20 314.30 1,146.1 53.6 -47.7 71.3 1.86 1.78 1,198.0 12.90 313.30 1,190.1 60.4 -54.7 81.1 1.63 1.56 1,242.0 13.40 313.50 1,234.8 67.5 -62.3 91.5 1.09 1.09 1,287.0 13.70 314.50 1,234.8 67.5 -62.3 91.5 1.09 1.09 1,287.0 13.70 314.50 1,234.8 67.5 -62.3 91.5 1.09 1.09 1,287.0 13.70 314.50 1,234.8 67.5 -62.3 91.5 1.09 1.09 1,287.0 13.70 314.50 1,236.8 90.4 -86.1 124.5 1.77 0.00 1,423.0 14.60 311.80 1,410.3 98.0 -94.5 135.8 0.32 0.22 1,469.0 14.60 311.80 1,401.3 98.0 -94.5 135.8 0.32 0.22 1,469.0 15.0 306.80 1,585.2 127.9 -130.4 182.5 1.59 1.59 1,559.0 15.0 30.93.0 1,581.8 120.6 -121.1 170.7 0.86 0.4 1,690.0 15.0 306.80 1,581.8 120.6 -121.1 170.7 0.88 0.44 1,690.0 15.0 306.80 1,581.8 120.6 -121.1 170.7 0.68 0.44 1,690.0 15.0 306.80 1,581.8 120.6 -121.1 170.7 0.68 0.44 1,690.0 15.0 306.80 1,581.8 120.6 -121.1 170.7 0.68 0.44 1,690.0 15.0 306.80 1,581.8 120.6 -121.1 170.7 0.68 0.44 1,690.0 15.0 306.80 1,581.8 120.6 121.1 170.7 0.68 0.44 1,690.0 15.0 306.80 1,581.8 120.6 121.1 170.7 0.68 0.44 1,690.0 15.0 306.80 1,581.5 122.9 1.59 1.59 0.20 1,695.0 15.10 306.80 1,673.1 142.2 -149.2 206.1 0.64 0.00 1,740.0 15.20 306.80 1,581.8 120.6 -121.1 170.7 0.8 0.40 1,740.0 15.20 306.80 1,585.2 127.9 -130.4 182.5 1.54 0.69 0.42 1,695.0 15.10 306.80 1,581.8 120.6 -121.1 170.7 0.8 0.44 1,831.0 15.00 306.80 1,581.8 120.6 -121.1 170.7 0.8 0.44 1,831.0 15.00 306.80 1,581.8 120.8 -121.1 170.7 0.8 0.44 1,831.0 15.00 306.80 1,581.8 120.8 1.21.1 120.9 144.0 0.00 1,740.0 15.20 306.80 1,585.2 127.9 -130.4 182.5 1.54 0.06.0 0.00 1,740.0 15.20 31.10 30.1 31.0 1.70 1.70 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.8	(°/100ft)	(*/100 <del>11)</del>	(*/10 <b>0ft</b> )	(IC)	(ft)	(ft)	i giya sa	. 0	(7)	114
835.0 5.70 315.40 803.5 16.5 -9.7 18.2 1.41 0.97 835.0 5.70 314.10 893.5 18.5 -11.7 21.1 1.98 1.94 830.0 6.80 313.70 879.0 21.9 -15.3 26.0 2.45 2.44 925.0 7.80 314.10 923.7 25.9 -19.4 31.7 2.23 2.24 970.0 8.80 315.00 968.2 30.4 -24.0 38.2 2.24 2.22 1,016.0 96.0 315.30 1,013.6 35.6 -29.2 45.6 1.74 1.74 1,061.0 11.40 313.10 1,07.9 41.2 34.8 53.5 2.46 2.44 1,106.0 11.40 313.10 1,102.1 47.2 -41.0 62.1 1.70 15.6 1,151.0 12.20 314.30 1,146.1 53.6 -47.7 71.3 1.86 1.78 1,198.0 12.90 313.30 1,190.1 60.4 -54.7 81.1 1.63 1.56 1,242.0 13.40 313.50 1,234.8 67.5 -62.3 91.5 1.09 1.09 1,228.0 13.70 314.50 1,234.8 67.5 -62.3 91.5 1.09 1.09 1,228.0 13.70 314.50 1,234.8 67.5 -62.3 91.5 1.09 1.09 1,228.0 13.70 314.50 1,234.8 80.4 -84.5 135.8 0.32 0.22 1,489.0 14.50 311.30 1,401.3 88.0 -34.5 135.8 0.32 0.22 1,489.0 14.60 311.80 1,430.3 88.0 -34.5 135.8 0.32 0.22 1,489.0 15.0 30.9 30 1,581.2 17.9 11.09 1.09 1,559.0 15.30 309.30 1,581.2 17.9 -130.4 182.5 1.54 1,690.0 15.0 306.50 1,541.8 120.6 -121.1 170.7 0.88 0.44 1,690.0 15.0 306.50 1,541.8 120.6 -121.1 170.7 0.88 0.44 1,690.0 15.0 306.50 1,541.8 120.6 -121.1 170.7 0.89 0.44 1,690.0 15.0 306.50 1,541.8 120.6 -121.1 170.7 0.89 0.44 1,690.0 15.0 306.50 1,541.8 120.6 -121.1 170.7 0.89 0.44 1,690.0 15.0 306.50 1,541.8 120.6 -121.1 170.7 0.68 0.44 1,690.0 15.0 306.50 1,541.8 120.6 -121.1 170.7 0.89 0.44 1,690.0 15.10 306.50 1,541.8 120.6 -121.1 170.7 0.89 0.44 1,690.0 15.10 306.50 1,541.8 120.6 -121.1 170.7 0.89 0.44 1,690.0 15.10 306.50 1,541.8 120.6 -121.1 170.7 0.89 0.44 1,690.0 15.10 306.50 1,541.8 120.6 -121.1 170.7 0.89 0.44 1,690.0 15.10 306.50 1,541.8 120.6 -121.1 170.7 0.89 0.44 1,690.0 15.10 306.50 1,541.8 120.6 -121.1 170.7 0.89 0.44 1,690.0 15.10 306.50 1,541.8 120.6 -121.1 170.7 0.99 0.44 1,690.0 15.10 306.50 1,541.8 120.6 -121.1 170.7 0.99 0.49 1,780.0 15.10 306.50 1,541.8 120.6 -121.1 170.7 0.99 0.49 1,780.0 15.10 306.50 1,541.8 120.6 -121.1 170.7 0.99 0.49 1,780.0 15.10 306.50 1,541.8 120.6 1.20.3 1.40.0 1.20.2 1.20.2 1.20.2 1.20.2 1.20.2 1.20.2 1.20.2 1.20.2 1.20.2 1.20	16.33	1.67	2.11	15.5	-7.7	14.6	772.6	311.70	4.80	
880.0 6.80 313.70 879.0 21.9 -15.3 28.0 2.45 2.44 92.5 970.0 8.80 316.00 988.2 30.4 -24.0 38.2 2.24 2.22 970.0 8.80 315.00 988.2 30.4 -24.0 38.2 2.24 2.22 1.016.0 9.60 315.30 1.013.6 35.6 -29.2 45.6 1.74 1.74 1.74 1.061.0 10.70 314.70 1.057.9 41.2 -41.0 62.1 1.70 1.56 1.01.0 11.00 11.40 313.10 1.102.1 47.2 41.0 62.1 1.70 1.56 1.01 1.057.9 41.2 41.0 62.1 1.70 1.56 1.01 1.057.9 41.2 41.0 62.1 1.70 1.56 1.01 1.057.9 1.146.1 53.6 4.77 71.3 1.06 1.10 1.10 1.20 314.30 1.146.1 53.6 4.77 71.3 1.06 1.10 1.10 1.20 314.30 1.146.1 53.6 4.77 71.3 1.06 1.10 1.20 314.30 1.146.1 53.6 4.77 71.3 1.05 1.09 1.09 1.287.0 13.30 1.190.1 60.4 -54.7 81.1 1.63 1.56 1.242 0.13.40 313.50 1.234.8 67.5 -62.3 91.5 1.09 1.09 1.287.0 13.70 314.50 1.234.8 67.5 -62.3 91.5 1.09 1.09 1.287.0 13.70 314.50 1.234.8 67.5 -62.3 91.5 1.09 1.09 1.287.0 14.50 312.30 1.366.8 90.4 -86.1 124.5 1.17 0.00 1.423.0 14.50 312.30 1.366.8 90.4 -86.1 124.5 1.17 0.00 1.423.0 14.60 311.80 1.410.3 88.0 -94.5 135.8 0.32 0.22 1.468.0 14.60 311.80 1.410.3 88.0 -94.5 135.8 0.32 0.22 1.468.0 15.30 300.30 1.541.8 120.6 -103.3 147.4 0.93 0.00 1.551.0 310.80 1.595.2 12.79 -130.4 182.5 1.54 0.67 1.850.0 15.30 300.30 1.541.8 120.6 -121.1 170.7 0.88 0.44 1.550.0 15.30 300.30 1.545.8 120.6 -121.1 170.7 0.88 0.44 1.550.0 15.30 300.50 1.595.2 127.9 -130.4 182.5 1.54 0.67 1.850.0 15.10 307.70 1.629.6 135.1 -139.9 194.4 0.50 0.22 1.785.0 15.00 306.50 1.673.1 142.2 -149.2 206.1 0.64 0.00 1.789.0 15.00 306.50 1.804.3 163.5 -177.8 241.6 0.93 0.00 1.770 1.829.6 135.1 -139.9 194.4 0.50 0.22 1.785.0 15.00 306.50 1.804.3 163.5 -177.8 241.6 0.93 0.00 1.878.0 1.891.4 176.9 -196.3 255.1 0.41 -0.22 1.921.0 1.40.0 304.90 1.891.4 176.9 -196.3 255.1 0.41 -0.22 1.921.0 1.40.0 304.90 1.891.4 176.9 -196.3 255.1 0.41 -0.22 2.926.0 0.44 1.831.0 1.50.0 306.60 1.804.3 163.5 -177.8 241.6 0.93 0.00 2.057.0 13.50 30.80 0.1.636.0 183.0 -205.4 275.1 1.46 0.93 0.00 2.057.0 13.50 30.80 0.203.6 1.804.3 163.5 -177.8 241.6 0.93 0.00 2.057.0 13.50 30.80.0 1.804.3 163.5 -177.8 241.6 0.93 0.00 2.057.0 13.50 30.80 0.26	11.94		1.41	18.2	-9.7	16.5	803.5	315.40	5.10	804.0
880.0 6.80 313.70 879.0 21.9 -15.3 28.0 2.45 2.44 92.5 970.0 8.80 316.00 988.2 30.4 -24.0 38.2 2.24 2.22 970.0 8.80 315.00 988.2 30.4 -24.0 38.2 2.24 2.22 1.016.0 9.60 315.30 1.013.6 35.6 -29.2 45.6 1.74 1.74 1.74 1.061.0 10.70 314.70 1.057.9 41.2 -41.0 62.1 1.70 1.56 1.01.0 11.00 11.40 313.10 1.102.1 47.2 41.0 62.1 1.70 1.56 1.01 1.057.9 41.2 41.0 62.1 1.70 1.56 1.01 1.057.9 41.2 41.0 62.1 1.70 1.56 1.01 1.057.9 1.146.1 53.6 4.77 71.3 1.06 1.10 1.10 1.20 314.30 1.146.1 53.6 4.77 71.3 1.06 1.10 1.10 1.20 314.30 1.146.1 53.6 4.77 71.3 1.06 1.10 1.20 314.30 1.146.1 53.6 4.77 71.3 1.05 1.09 1.09 1.287.0 13.30 1.190.1 60.4 -54.7 81.1 1.63 1.56 1.242 0.13.40 313.50 1.234.8 67.5 -62.3 91.5 1.09 1.09 1.287.0 13.70 314.50 1.234.8 67.5 -62.3 91.5 1.09 1.09 1.287.0 13.70 314.50 1.234.8 67.5 -62.3 91.5 1.09 1.09 1.287.0 14.50 312.30 1.366.8 90.4 -86.1 124.5 1.17 0.00 1.423.0 14.50 312.30 1.366.8 90.4 -86.1 124.5 1.17 0.00 1.423.0 14.60 311.80 1.410.3 88.0 -94.5 135.8 0.32 0.22 1.468.0 14.60 311.80 1.410.3 88.0 -94.5 135.8 0.32 0.22 1.468.0 15.30 300.30 1.541.8 120.6 -103.3 147.4 0.93 0.00 1.551.0 310.80 1.595.2 12.79 -130.4 182.5 1.54 0.67 1.850.0 15.30 300.30 1.541.8 120.6 -121.1 170.7 0.88 0.44 1.550.0 15.30 300.30 1.545.8 120.6 -121.1 170.7 0.88 0.44 1.550.0 15.30 300.50 1.595.2 127.9 -130.4 182.5 1.54 0.67 1.850.0 15.10 307.70 1.629.6 135.1 -139.9 194.4 0.50 0.22 1.785.0 15.00 306.50 1.673.1 142.2 -149.2 206.1 0.64 0.00 1.789.0 15.00 306.50 1.804.3 163.5 -177.8 241.6 0.93 0.00 1.770 1.829.6 135.1 -139.9 194.4 0.50 0.22 1.785.0 15.00 306.50 1.804.3 163.5 -177.8 241.6 0.93 0.00 1.878.0 1.891.4 176.9 -196.3 255.1 0.41 -0.22 1.921.0 1.40.0 304.90 1.891.4 176.9 -196.3 255.1 0.41 -0.22 1.921.0 1.40.0 304.90 1.891.4 176.9 -196.3 255.1 0.41 -0.22 2.926.0 0.44 1.831.0 1.50.0 306.60 1.804.3 163.5 -177.8 241.6 0.93 0.00 2.057.0 13.50 30.80 0.1.636.0 183.0 -205.4 275.1 1.46 0.93 0.00 2.057.0 13.50 30.80 0.203.6 1.804.3 163.5 -177.8 241.6 0.93 0.00 2.057.0 13.50 30.80.0 1.804.3 163.5 -177.8 241.6 0.93 0.00 2.057.0 13.50 30.80 0.26	-4.19	1.04	1.00	21.1	-11 7	18.5	834.3	314 10	5.70	835.0
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1,740.0	1.74									
1,785.0	-2.44	0.00	0.64	206.1	-149.2	142.2	1,673.1	306.60	15.10	1,695.0
1,785.0       15.40       307.20       1,759.9       156.3       -188.2       229.6       0.69       0.44         1,831.0       15.00       306.60       1,804.3       163.5       -177.8       241.6       0.93       -0.87         1,876.0       14.90       306.00       1,847.8       170.4       -187.2       253.1       0.41       -0.22         1,921.0       14.00       304.90       1,891.4       176.9       -196.3       264.3       2.09       -2.00         1,967.0       13.50       303.00       1,936.0       183.0       -205.4       275.1       1.46       -1.09         2,057.0       13.50       304.80       1,979.8       188.9       -214.1       285.5       0.93       0.00         2,057.0       13.20       309.80       2,033.6       195.2       -222.4       295.9       2.65       -0.67         2,103.0       13.00       311.60       2,068.4       202.0       -230.3       306.3       0.99       -0.43         2,148.0       12.20       313.70       2,112.3       208.6       -237.5       316.1       2.05       -1.78         2,193.0       12.00       314.40       2,156.3       215.2	-0.67	0.22	0.28	217.8	-158.7	149.2	1,716.5	306.30	15.20	1,740.0
1,831.0       15.00       306.60       1,804.3       163.5       -177.8       241.6       0.93       -0.87         1,876.0       14.90       306.00       1,847.8       170.4       -187.2       253.1       0.41       -0.22         1,921.0       14.00       304.90       1,891.4       176.9       -196.3       264.3       2.09       -2.00         1,967.0       13.50       303.00       1,936.0       183.0       -205.4       275.1       1.46       -1.09         2,012.0       13.50       304.80       1,979.8       188.9       -214.1       285.5       0.93       0.00         2,057.0       13.20       309.80       2,023.6       195.2       -222.4       295.9       2.65       -0.67         2,103.0       13.00       311.60       2,068.4       202.0       -230.3       306.3       0.99       -0.43         2,148.0       12.20       313.70       2,112.3       208.6       -237.5       316.1       2.05       -1,78         2,193.0       12.00       314.40       2,156.3       215.2       -244.3       325.5       0.55       -0.44         2,238.0       12.00       313.40       2,200.3       226.7	2.00				-168.2	156.3	1,759.9	307.20	15.40	1,785.0
1,876.0       14.90       306.00       1,847.8       170.4       -187.2       253.1       0.41       -0.22         1,921.0       14.00       304.90       1,891.4       176.9       -196.3       264.3       2.09       -2.00         1,967.0       13.50       303.00       1,936.0       183.0       -205.4       275.1       1.46       -1,09         2,012.0       13.50       304.80       1,979.8       188.9       -214.1       285.5       0.93       0.00         2,057.0       13.20       309.80       2,023.6       195.2       -222.4       295.9       2.65       -0.67         2,103.0       13.00       311.60       2,068.4       202.0       -230.3       306.3       0.99       -0.43         2,148.0       12.20       313.70       2,112.3       208.6       -237.5       316.1       2.05       -1,78         2,193.0       12.00       314.40       2,156.3       215.2       -244.3       325.5       0.55       -0.44         2,238.0       12.00       314.60       2,245.3       228.4       -258.0       344.5       0.70       0.43         2,329.0       12.00       315.10       2,289.3       235.0	-1.30		0.93	241.6	-177.8	163.5	1,804.3	306.60	15.00	1,831.0
1,967.0       13.50       303.00       1,936.0       183.0       -205.4       275.1       1.46       -1.09         2,012.0       13.50       304.80       1,979.8       188.9       -214.1       285.5       0,93       0,00         2,057.0       13.20       309.80       2,023.6       195.2       -222.4       295.9       2,65       -0,67         2,103.0       13.00       311.60       2,068.4       202.0       -230.3       306.3       0,99       -0.43         2,148.0       12.20       313.70       2,112.3       208.6       -237.5       316.1       2,05       -1,78         2,193.0       12.00       314.40       2,156.3       215.2       -244.3       325.5       0,55       -0.44         2,238.0       12.00       313.40       2,200.3       221.7       -251.0       334.9       0,46       0,00         2,284.0       12.20       314.60       2,245.3       228.4       -258.0       344.5       0,70       0,43         2,374.0       12.20       315.20       2,333.3       241.7       -271.3       363.4       0,45       0,44         2,420.0       12.00       313.40       2,378.3       248.4	-1.33		0.41	253.1	-187.2	170.4	1,847.8	306.00	14.90	1,876.0
2,012.0         13.50         304.80         1,979.8         188.9         -214.1         285.5         0,93         0,00           2,057.0         13.20         309.80         2,023.6         195.2         -222.4         295.9         2.65         -0.67           2,103.0         13.00         311.60         2,068.4         202.0         -230.3         306.3         0.99         -0.43           2,148.0         12.20         313.70         2,112.3         208.6         -237.5         316.1         2.05         -1.78           2,193.0         12.00         314.40         2,156.3         215.2         -244.3         325.5         0.55         -0.44           2,238.0         12.00         314.60         2,245.3         228.4         -258.0         344.5         0.70         0.43           2,329.0         12.00         315.10         2,289.3         235.0         -264.7         353.9         0.50         -0.44           2,374.0         12.20         315.20         2,333.3         241.7         -271.3         363.4         0.45         0.44           2,420.0         12.00         312.10         2,422.3         254.8         -285.1         382.3         0.60	-2.44	-2.00	2.09	264.3	-196.3	176.9	1,891.4	304.90	14.00	1,921.0
2,012.0         13.50         304.80         1,979.8         188.9         -214.1         285.5         0,93         0,00           2,057.0         13.20         309.80         2,023.6         195.2         -222.4         295.9         2.65         -0.67           2,103.0         13.00         311.60         2,068.4         202.0         -230.3         306.3         0.99         -0.43           2,148.0         12.20         313.70         2,112.3         208.6         -237.5         316.1         2.05         -1.78           2,193.0         12.00         314.40         2,156.3         215.2         -244.3         325.5         0.55         -0.44           2,238.0         12.00         314.60         2,245.3         228.4         -258.0         344.5         0.70         0.43           2,329.0         12.00         315.10         2,289.3         235.0         -264.7         353.9         0.50         -0.44           2,374.0         12.20         315.20         2,333.3         241.7         -271.3         363.4         0.45         0.44           2,420.0         12.00         312.10         2,422.3         254.8         -285.1         382.3         0.60	-4.13	-1.00	1.46	275 1	-205.4	183 0	1.936.0	303.00	13.50	1.967.0
2,057.0         13.20         309.80         2,023.6         195.2         -222.4         295.9         2.65         -0.67           2,103.0         13.00         311.60         2,068.4         202.0         -230.3         306.3         0.99         -0.43           2,148.0         12.20         313.70         2,112.3         208.6         -237.5         316.1         2.05         -1.78           2,193.0         12.00         314.40         2,156.3         215.2         -244.3         325.5         0.55         -0.44           2,238.0         12.00         313.40         2,200.3         221.7         -251.0         334.9         0.46         0.00           2,284.0         12.20         315.10         2,289.3         235.0         -264.7         353.9         0.50         -0.44           2,374.0         12.20         315.20         2,333.3         241.7         -271.3         363.4         0.45         0.44           2,420.0         12.00         312.10         2,422.3         254.8         -285.1         382.3         0.60         0.00           2,510.0         12.30         313.00         2,466.3         261.2         -292.1         391.8         0.79	4.00									
2,103.0       13.00       311.60       2,068.4       202.0       -230.3       306.3       0.99       -0.43         2,148.0       12.20       313.70       2,112.3       208.6       -237.5       316.1       2.05       -1,78         2,193.0       12.00       314.40       2,156.3       215.2       -244.3       325.5       0.55       -0.44         2,238.0       12.00       313.40       2,200.3       221.7       -251.0       334.9       0.46       0.00         2,284.0       12.20       314.60       2,245.3       228.4       -258.0       344.5       0.70       0.43         2,339.0       12.00       315.10       2,289.3       235.0       -264.7       353.9       0.50       -0.44         2,374.0       12.20       315.20       2,333.3       241.7       -271.3       363.4       0.45       0.44         2,420.0       12.00       313.40       2,378.3       248.4       -278.2       373.0       0.93       -0.43         2,465.0       12.00       313.40       2,422.3       254.8       -285.1       382.3       0.60       0.00         2,510.0       12.30       313.50       2,466.3       261.2	11.11									
2,148.0       12.20       313.70       2,112.3       208.6       -237.5       316.1       2.05       -1,78         2,193.0       12.00       314.40       2,156.3       215.2       -244.3       325.5       0,55       -0,44         2,238.0       12.00       313.40       2,200.3       221.7       -251.0       334.9       0,46       0,00         2,284.0       12.20       314.60       2,245.3       228.4       -258.0       344.5       0,70       0,43         2,329.0       12.00       315.10       2,289.3       235.0       -264.7       353.9       0,50       -0,44         2,374.0       12.20       315.20       2,333.3       241.7       -271.3       363.4       0,45       0,44         2,420.0       12.00       313.40       2,378.3       248.4       -278.2       373.0       0,93       -0,43         2,420.0       12.00       312.10       2,422.3       254.8       -285.1       382.3       0,60       0,00         2,510.0       12.30       313.00       2,466.3       261.2       -292.1       391.8       0,79       0,67         2,555.0       12.50       313.50       2,510.2       267.8	3.91									2,103.0
2,193.0       12.00       314.40       2,156.3       215.2       -244.3       325.5       0.55       -0.44         2,238.0       12.00       313.40       2,200.3       221.7       -251.0       334.9       0.46       0.00         2,284.0       12.20       314.60       2,245.3       228.4       -258.0       344.5       0.70       0.43         2,329.0       12.00       315.10       2,289.3       235.0       -264.7       353.9       0.50       -0.44         2,374.0       12.20       315.20       2,333.3       241.7       -271.3       363.4       0.45       0.44         2,420.0       12.00       313.40       2,378.3       248.4       -278.2       373.0       0.93       -0.43         2,465.0       12.00       312.10       2,422.3       254.8       -285.1       382.3       0.60       0.00         2,510.0       12.30       313.00       2,466.3       261.2       -292.1       391.8       0.79       0.67         2,555.0       12.50       311.80       2,555.1       274.6       -306.4       411.4       0.80       0.00         2,646.0       12.60       310.50       2,599.1       281.0	4.67					208.6	2,112.3	313.70	12.20	2,148.0
2,238.0       12.00       313.40       2,200.3       221.7       -251.0       334.9       0.46       0.00         2,284.0       12.20       314.60       2,245.3       228.4       -258.0       344.5       0.70       0.43         2,329.0       12.00       315.10       2,289.3       235.0       -264.7       353.9       0.50       -0.44         2,374.0       12.20       315.20       2,333.3       241.7       -271.3       363.4       0.45       0.44         2,420.0       12.00       313.40       2,378.3       248.4       -278.2       373.0       0.93       -0.43         2,465.0       12.00       312.10       2,422.3       254.8       -285.1       382.3       0.60       0.00         2,510.0       12.30       313.00       2,466.3       261.2       -292.1       391.8       0.79       0.67         2,555.0       12.50       313.50       2,510.2       267.8       -299.1       401.5       0.50       0.44         2,601.0       12.50       311.80       2,555.1       274.6       -306.4       411.4       0.80       0.00         2,646.0       12.60       311.40       2,643.0       287.4			0.55	325.5	-244.3	215.2	2 156 3	314.40	12.00	2 193 0
2,284.0       12.20       314.60       2,245.3       228.4       -258.0       344.5       0.70       0.43         2,329.0       12.00       315.10       2,289.3       235.0       -264.7       353.9       0.50       -0.44         2,374.0       12.20       315.20       2,333.3       241.7       -271.3       363.4       0.45       0.44         2,420.0       12.00       313.40       2,378.3       248.4       -278.2       373.0       0.93       -0.43         2,465.0       12.00       312.10       2,422.3       254.8       -285.1       382.3       0.60       0.00         2,510.0       12.30       313.00       2,466.3       261.2       -292.1       391.8       0.79       0.67         2,555.0       12.50       313.50       2,510.2       267.8       -299.1       401.5       0.50       0.44         2,601.0       12.50       311.80       2,555.1       274.6       -306.4       411.4       0.80       0.00         2,646.0       12.60       310.50       2,599.1       281.0       -313.8       421.2       0.67       0.22         2,691.0       12.60       311.40       2,643.0       287.4	1.56 -2.22									•
2,329.0       12.00       315.10       2,289.3       235.0       -264.7       353.9       0.50       -0.44         2,374.0       12.20       315.20       2,333.3       241.7       -271.3       363.4       0.45       0.44         2,420.0       12.00       313.40       2,378.3       248.4       -278.2       373.0       0.93       -0.43         2,465.0       12.00       312.10       2,422.3       254.8       -285.1       382.3       0.60       0.00         2,510.0       12.30       313.00       2,466.3       261.2       -292.1       391.8       0.79       0.67         2,555.0       12.50       313.50       2,510.2       267.8       -299.1       401.5       0.50       0.44         2,601.0       12.50       311.80       2,555.1       274.6       -306.4       411.4       0.80       0.00         2,646.0       12.60       310.50       2,599.1       281.0       -313.8       421.2       0.67       0.22         2,691.0       12.60       311.40       2,643.0       287.4       -321.2       431.0       0.44       0.00         2,737.0       12.50       312.80       2,687.9       294.1	2.61									
2,374.0       12.20       315.20       2,333.3       241.7       -271.3       363.4       0.45       0.44         2,420.0       12.00       313.40       2,378.3       248.4       -278.2       373.0       0.93       -0.43         2,465.0       12.00       312.10       2,422.3       254.8       -285.1       382.3       0.60       0.00         2,510.0       12.30       313.00       2,466.3       261.2       -292.1       391.8       0.79       0.67         2,555.0       12.50       313.50       2,510.2       267.8       -299.1       401.5       0.50       0.44         2,601.0       12.50       311.80       2,555.1       274.6       -306.4       411.4       0.80       0.00         2,646.0       12.60       310.50       2,599.1       281.0       -313.8       421.2       0.67       0.22         2,691.0       12.60       311.40       2,643.0       287.4       -321.2       431.0       0.44       0.00         2,737.0       12.50       312.80       2,687.9       294.1       -328.6       441.0       0.70       -0.22         2,782.0       12.70       311.90       2,731.8       300.7	1.11									
2,420.0       12.00       313.40       2,378.3       248.4       -278.2       373.0       0.93       -0.43         2,465.0       12.00       312.10       2,422.3       254.8       -285.1       382.3       0.60       0.00         2,510.0       12.30       313.00       2,466.3       261.2       -292.1       391.8       0.79       0.67         2,555.0       12.50       313.50       2,510.2       267.8       -299.1       401.5       0.50       0.44         2,601.0       12.50       311.80       2,555.1       274.6       -306.4       411.4       0.80       0.00         2,646.0       12.60       310.50       2,599.1       281.0       -313.8       421.2       0.67       0.22         2,691.0       12.60       311.40       2,643.0       287.4       -321.2       431.0       0.44       0.00         2,737.0       12.50       312.80       2,687.9       294.1       -328.6       441.0       0.70       -0.22         2,782.0       12.70       311.90       2,731.8       300.7       -335.9       450.8       0.62       0.44         2,827.0       12.40       311.40       2,775.7       307.2	0.22									2,374.0
2,465.0         12.00         312.10         2,422.3         254.8         -285.1         382.3         0.60         0.00           2,510.0         12.30         313.00         2,466.3         261.2         -292.1         391.8         0.79         0.67           2,555.0         12.50         313.50         2,510.2         267.8         -299.1         401.5         0.50         0.44           2,601.0         12.50         311.80         2,555.1         274.6         -306.4         411.4         0.80         0.00           2,646.0         12.60         310.50         2,599.1         281.0         -313.8         421.2         0.67         0.22           2,691.0         12.60         311.40         2,643.0         287.4         -321.2         431.0         0.44         0.00           2,737.0         12.50         312.80         2,687.9         294.1         -328.6         441.0         0.70         -0.22           2,782.0         12.70         311.90         2,731.8         300.7         -335.9         450.8         0.62         0.44           2,827.0         12.40         311.40         2,775.7         307.2         -343.2         460.6         0.71									12.00	2 420 0
2,510.0       12.30       313.00       2,466.3       261.2       -292.1       391.8       0.79       0.67         2,555.0       12.50       313.50       2,510.2       267.8       -299.1       401.5       0.50       0.44         2,601.0       12.50       311.80       2,555.1       274.6       -306.4       411.4       0.80       0.00         2,646.0       12.60       310.50       2,599.1       281.0       -313.8       421.2       0.67       0.22         2,691.0       12.60       311.40       2,643.0       287.4       -321.2       431.0       0.44       0.00         2,737.0       12.50       312.80       2,687.9       294.1       -328.6       441.0       0.70       -0.22         2,782.0       12.70       311.90       2,731.8       300.7       -335.9       450.8       0.62       0.44         2,827.0       12.40       311.40       2,775.7       307.2       -343.2       460.6       0.71       -0.67         2,873.0       12.70       312.50       2,820.6       313.9       -350.6       470.6       0.83       0.65         2,918.0       12.40       311.80       2,864.6       320.5	-3.91									
2,555.0         12.50         313.50         2,510.2         267.8         -299.1         401.5         0,50         0,44           2,601.0         12.50         311.80         2,555.1         274.6         -306.4         411.4         0.80         0.00           2,646.0         12.60         310.50         2,599.1         281.0         -313.8         421.2         0.67         0.22           2,691.0         12.60         311.40         2,643.0         287.4         -321.2         431.0         0.44         0.00           2,737.0         12.50         312.80         2,687.9         294.1         -328.6         441.0         0.70         -0.22           2,782.0         12.70         311.90         2,731.8         300.7         -335.9         450.8         0.62         0.44           2,827.0         12.40         311.40         2,775.7         307.2         -343.2         460.6         0.71         -0.67           2,873.0         12.70         312.50         2,820.6         313.9         -350.6         470.6         0.83         0.65           2,918.0         12.40         311.80         2,864.6         320.5         -357.9         480.4         0.75	-2.89									
2,601.0         12.50         311.80         2,555.1         274.6         -306.4         411.4         0.80         0.00           2,646.0         12.60         310.50         2,599.1         281.0         -313.8         421.2         0.67         0.22           2,691.0         12.60         311.40         2,643.0         287.4         -321.2         431.0         0.44         0.00           2,737.0         12.50         312.80         2,687.9         294.1         -328.6         441.0         0.70         -0.22           2,782.0         12.70         311.90         2,731.8         300.7         -335.9         450.8         0.62         0.44           2,827.0         12.40         311.40         2,775.7         307.2         -343.2         460.6         0.71         -0.67           2,873.0         12.70         312.50         2,820.6         313.9         -350.6         470.6         0.83         0.65           2,918.0         12.40         311.80         2,864.6         320.5         -357.9         480.4         0.75         -0.67           2,963.0         12.40         312.50         2,908.5         327.0         -365.0         490.1         0.33	2.00 1.11									
2,646.0       12.60       310.50       2,599.1       281.0       -313.8       421.2       0.67       0.22         2,691.0       12.60       311.40       2,643.0       287.4       -321.2       431.0       0.44       0.00         2,737.0       12.50       312.80       2,687.9       294.1       -328.6       441.0       0.70       -0.22         2,782.0       12.70       311.90       2,731.8       300.7       -335.9       450.8       0.62       0.44         2,827.0       12.40       311.40       2,775.7       307.2       -343.2       460.6       0.71       -0.67         2,873.0       12.70       312.50       2,820.6       313.9       -350.6       470.6       0.83       0.65         2,918.0       12.40       311.80       2,864.6       320.5       -357.9       480.4       0.75       -0.67         2,963.0       12.40       312.50       2,908.5       327.0       -365.0       490.1       0.33       0.00	-3.70									
2,691.0       12.60       311.40       2,643.0       287.4       -321.2       431.0       0.44       0.00         2,737.0       12.50       312.80       2,687.9       294.1       -328.6       441.0       0.70       -0.22         2,782.0       12.70       311.90       2,731.8       300.7       -335.9       450.8       0.62       0.44         2,827.0       12.40       311.40       2,775.7       307.2       -343.2       460.6       0.71       -0.67         2,873.0       12.70       312.50       2,820.6       313.9       -350.6       470.6       0.83       0.65         2,918.0       12.40       311.80       2,864.6       320.5       -357.9       480.4       0.75       -0.67         2,963.0       12.40       312.50       2,908.5       327.0       -365.0       490.1       0.33       0.00										
2,737.0     12.50     312.80     2,687.9     294.1     -328.6     441.0     0.70     -0.22       2,782.0     12.70     311.90     2,731.8     300.7     -335.9     450.8     0.62     0.44       2,827.0     12.40     311.40     2,775.7     307.2     -343.2     460.6     0.71     -0.67       2,873.0     12.70     312.50     2,820.6     313.9     -350.6     470.6     0.83     0.65       2,918.0     12.40     311.80     2,864.6     320.5     -357.9     480.4     0.75     -0.67       2,963.0     12.40     312.50     2,908.5     327.0     -365.0     490.1     0.33     0.00	-2.89									
2,782.0     12.70     311.90     2,731.8     300.7     -335.9     450.8     0.62     0.44       2,827.0     12.40     311.40     2,775.7     307.2     -343.2     460.6     0.71     -0.67       2,873.0     12.70     312.50     2,820.6     313.9     -350.6     470.6     0.83     0.65       2,918.0     12.40     311.80     2,864.6     320.5     -357.9     480.4     0.75     -0.67       2,963.0     12.40     312.50     2,908.5     327.0     -365.0     490.1     0.33     0.00	2.00									
2,827.0     12.40     311.40     2,775.7     307.2     -343.2     460.6     0.71     -0.67       2,873.0     12.70     312.50     2,820.6     313.9     -350.6     470.6     0.83     0.65       2,918.0     12.40     311.80     2,864.6     320.5     -357.9     480.4     0.75     -0.67       2,963.0     12.40     312.50     2,908.5     327.0     -365.0     490.1     0.33     0.00	3.04									
2,873.0     12.70     312.50     2,820.6     313.9     -350.6     470.6     0.83     0.65       2,918.0     12.40     311.80     2,864.6     320.5     -357.9     480.4     0.75     -0.67       2,963.0     12.40     312.50     2,908.5     327.0     -365.0     490.1     0.33     0.00	-2.00 1.11									
2,918.0     12.40     311.80     2,864.6     320.5     -357.9     480.4     0.75     -0.67       2,963.0     12.40     312.50     2,908.5     327.0     -365.0     490.1     0.33     0.00	-1.11	-0.67	0.71							
2,963.0 12.40 312.50 2,908.5 327.0 -365.0 490.1 0.33 0.00	2.39									
	-1.56									
3.009.0 12.20 311.20 2.953.4 333.5 -372.3 499.8 0.74 -0.43	1.56									
	-2.83	-0.43	0.74	499.8	-372.3	333.5	2,953.4	311.20	12.20	3,009.0
3,053.0 12.00 310.00 2,996.5 339.5 -379.3 509.1 0.73 -0.45	-2.73	-0.45	0.73	509.1	-379.3	339.5	2,996.5	310.00	12.00	3,053.0



Survey Report



Company:

NEWFIELD EXPLORATION

Project: Site: USGS Myton SW (UT)

Well:

SECTION 29 T8S, R17E U-19-8-17

Wellbore: Design: Wellbore #1
Actual

Local Co-ordinate Reference:

Well U-19-8-17

TVD Reference:

U-19-8-17 @ 5298.0ft (Capstar 328)

MD Reference:

U-19-8-17 @ 5298.0ft (Capstar 328)

North Reference: Survey Calculation Method:

Minimum Curvature

Database:

EDM 2003.21 Single User Db

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Measured Depth	Inclination		Vertical Depth			Vertical	Dogleg	Build	Türn
(ft)	Inclination (°)	Azimuth (°)	(ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	(°/100ft)	Rate . (°/100ft)
3,189.0	11.60	310.50	3,129.6	356.9	-400.8	536.7	0.94	0.00	4,67
3,234.0	12.20	311.70	3,173,7	363.0	-407.8	546.0	1.44	1.33	2.67
3,280.0	12.90	315.00	3,218.6	369.9	-415.0	556.0	2.18	1.52	7.17
3,325.0	12.70	315.50	3,262.4						
3,370.0	13.00	314.30		377.0	-422.1	565.9	0.51	-0.44	1.11
3,415.0	13.70		3,306.3	384.1	-429.1	575.9	0.89	0.67	<b>-</b> 2.67
3,461.0	14.10	315.10	3,350.1	391.4	-436.5	586.3	1.61	1.56	1.78
3,506.0	13.40	316.10	3,394.8	399.3	-444.3	597.3	1.01	0.87	2.17
3,300.0	13.40	312.70	3,438.5	406.7	-451.9	608.0	2.38	-1.56	-7.56
3,551.0	12.90	311.60	3,482.3	413.6	-459.5	618.2	1.24	-1.11	-2.44
3,596.0	13.10	312.60	3,526.1	420.4	-467.0	628.3	0.67	0.44	2.22
3,642.0	13.50	316.70	3,570.9	427.8	-474.5	638.9	2.23	0.87	8.91
3,687.0	14.10	314.10	3,614.6	435.5	-482.1	649.6	1.92	1.33	-5.78
3,732.0	14.10	311.20	3,658.2	442.9	-490.1	660.6	1.57	0.00	-6.44
3,778.0	14.00	309.20	3,702.9	450.1					
3,823.0	13.80	309,20	3,746.6	450.1 457.0	-498.6	671.7	1.08	-0.22	-4.35
3,868.0	13.60	309.80			-507.0	682.5	0.47	-0.44	0.67
3,913.0	13.40		3,790.3	463.6	-515.3	693.2	1.00	-0.44	-3.78
3,958.0	13.30	308.20	3,834.0	470.1	-523.6	703.7	0.49	-0.44	0.89
3,936.0	13.30	311.00	3,877.8	476.7	-531.6	714.0	1.45	-0.22	6.22
4,007.0	13,70	312.10	3,925.5	484.3	-540.2	725.5	0.97	0.82	2.24
4,049.0	13.10	310.10	3,966.3	490.7	-547.5	735.2	1.80	-1.43	-4.76
4,095.0	12.70	308.50	4,011.2	497.2	-555,4	745.5	1.17	-0.87	-3.48
4,140.0	12.20	306.50	4,055.1	503.1	-563.1	755.1	1.47	-1.11	-4.44
4,185.0	12.10	306.10	4,099.1	508.7	-570.8	764.6	0.29	-0.22	-0.89
4,230.0	11.60	200.00	4.440.4						
		308.30	4,143.1	514.3	-578.1	773.8	1.50	-1.11	4.89
4,276.0	11.50	309.20	4,188.2	520.1	-585.3	783.0	0.45	-0.22	1.96
4,321.0	12.00	311.20	4,232.3	526.0	-592.3	792.1	1.43	1.11	4.44
4,366.0	12.40	314.20	4,276.2	532.4	-599.3	801.6	1.67	0.89	6.67
4,412.0	13.00	315.60	4,321.1	539.6	-606.5	811.7	1.47	1.30	3.04
4,457.0	13.10	313.70	4,365.0	546.7	-613.7	821.9	0.98	0.22	-4.22
4,502.0	12.70	312.50	4,408.8	553.6	-621.0	831.9	1.07	-0.89	-2.67
4,547.0	12.80	313.70	4,452.7	560.4	-628.3	841.8	0.63	0.22	2.67
4,638.0	12.50	310.60	4,541.5	573.7	-643.0	861.8	0.82	-0.33	-3.41
4,683.0	12.60	309.20	4,585.4	580.0	-650.5	871.5	0.71	0.22	-3.11
4,729.0	12.80	309.90	4,630.3	586.4	-658.3	881.6	0.55	0.42	4.50
4,774.0	12.80	310.70	4,674.2	592.9	-665.9	891.6		0.43	1.52
4,819.0	12.60	313.00	4,718.1	599.5	-673.3		0.39	0.00	1.78
4,864.0	12.00	311.00	4,762.0	605.9	-680.4	901.5	1.21	-0.44	5.11
4,910.0	11.70	311.50	4,762.0 4,807.1	612.1	-680.4 -687.5	911.1 920.5	1.64	-1.33	-4.44 1.00
							0.69	-0.65	1.09
4,955.0	12.40	313.00	4,851.1	618.5	-694.5	929.9	1.70	1.56	3.33
5,001.0	12.70	314.70	4,896.0	625.4	-701.7	939.9	1.03	0.65	3.70
5,046.0	12.90	314.80	4,939.9	632.4	-708.8	949.9	0.45	0.44	0.22
5,091.0	13.20	315.60	4,983.7	639.6	-715.9	960.0	0.78	0.67	1.78
5,136.0	13.20	314.50	5,027.5	646.9	-723.2	970,3	0.56	0.00	-2.44
5,182.0	13.30	314.70	5,072.3	654.3	-730.7	980.8	0.24	0.22	0.43
5,227.0	13.50	312.80	5,116.1	661.5	-738.2	991.2	1,07	0.44	-4.22
5,272.0	13.60	314.40	5,159.8	668.8	-745.9	1,001.8	0.86	0.44	3.56
5,308.3	13.52	313.85	5,195.1	674.7	-745.9 -752.0	1,010.3	0.66	-0.22	3.56 -1.52
U-19-8-17 TG		010.00	0, 100. 1	014.1	-132.0	1,010.3	0.42	-0.22	-1.52
		242 70	E 204 E	676 9	750 0	1 040 5	0.40	2.00	4.50
5,318.0	13.50	313.70	5,204.5	676.3	-753.6	1,012.5	0.42	-0.22	-1.53
5,363.0	13.20	313.20	5,248.3	683.4	-761.1	1,022.9	0.71	-0.67	-1.11
5,408.0	13.10	314.60	5,292.1	690.5	-768.5	1,033.2	0.74	-0.22	3.11
5,453.0	12.70	313.10	5,336.0	697.5	-775.8	1,043.2	1.16	-0.89	-3.33
5,499.0	12.50	312.60	5,380.9	704.3	-783.1	1,053.2	0.50	-0.43	-1.09
5,544.0	12.10	313.50	5,424.8	710.8	-790.1	1,062.8	0.99	-0,89	2.00



Survey Report



Company:

**NEWFIELD EXPLORATION** 

Project:

USGS Myton SW (UT)

Site: Well: SECTION 29 T8S, R17E U-19-8-17

Wellbore:

Wellbore #1

Design:

Actual

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

**Survey Calculation Method:** Database:

Well U-19-8-17

U-19-8-17 @ 5298.0ft (Capstar 328)

U-19-8-17 @ 5298.0ft (Capstar 328)

Minimum Curvature

EDM 2003.21 Single User Db

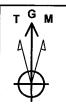
Measured Depth (ft)	inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
					· . · ·				(710019
5,589.0	12.50	313.30	5,468.8	717.4	-797.1	1,072.4	0.89	0.89	-0.44
5,634.0	12.60	315.20	5,512.7	724.2	-804.1	1,082.2	0.94	0.22	4.22
5,680.0	12.20	316.10	5,557.7	731.3	-811.0	1,092.0	0.97	-0.87	1.96
5,725.0	12.10	315.40	5,601.7	738.1	-817.6	1,101.5	0.40	-0.22	-1.56
5,771.0	12.50	313.90	5,646.6	745.0	-824.6	1,111.3	1.11	0.87	-3.26
5,816.0	12.90	313.40	5,690.5	751.8	-831.7	1,121.2	0.92	0.89	-1.11
5,861.0	13.20	313.80	5,734.3	758.8	-839.1	1,131.3	0.70	0.67	0.89
5,906.0	12.90	315.70	5,778.2	766.0	-846.3	1,141.5	1.16	-0.67	4.22
5,952.0	12.40	316.40	5,823.1	773.2	-853.3	1.151.5	1.14	-1.09	1.52
5,997.0	11.80	313.40	5,867.1	779.9	-860.0	1,160.9	1.93	-1.33	-6.67
6,042.0	11.40	309.00	5,911.1	785,8	-866.8	1,170.0	2.16	-0.89	-9.78
6,088.0	12.00	308.90	5,956.2	791.7	-874.0	1,179.3	1.31	1.30	-0.22
6,133.0	13.10	310.20	6,000.1	797.9	-881.6	1,189.0	2.52	2.44	2.89
6,178.0	13.40	312.40	6,043.9	804.7	-889.3	1,199.4	1.30	0.67	4.89
6,223.0	13.30	313.40	6,087.7	811.8	-896.9	1,209.7	0.56	-0.22	2.22
6,268.0	12.70	311.90	6,131.5	818.7	-904.4	1,219.9	1.53	-1.33	-3.33
6,313.0	12.20	311.00	6,175.5	825.1	-911.6	1,229.6	1.19	-1.11	-2.00
6,359.0	11.60	309.60	6,220.5	831.2	-918.9	1,239.0	1.45	-1.30	-3.04
6,404.0	11.50	307.40	6,264.6	836.8	-925.9	1,248.0	1.00	-0.22	-4.89
6,449.0	11.10	305.80	6,308.7	842.1	-933.0	1,256.8	1.13	-0.89	-3.56
6,495.0	10.60	305.40	6,353.9	847.1	-940.0	1,265.4	1.10	-1.09	-0.87
6,540.0	10.40	304.90	6,398.1	851.9	-946.7	1,273.6	0.49	-0.44	-1.11
6,585.0	9.90	302.30	6,442.4	856.2	-953.3	1,281.4	1.51	-1.11	-5.78
6,631.0	9.60	300.60	6,487.8	860.3	-960.0	1,289.1	0.90	-0.65	-3.70
6,647.0	9.30	300.00	6,503.6	861.6	-962.3	1,291.6	1.97	-1.88	-3.75
6,700.0	9.30	300.00	6,555.9	865.9	-969.7	1,300.0	0.00	0.00	0.00

Checked By:	Approved By:	Date:



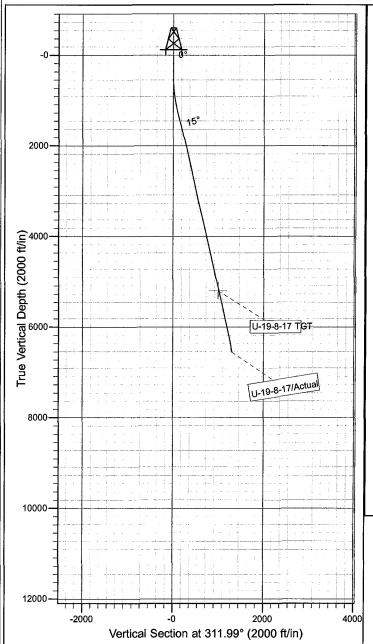
Project: USGS Myton SW (UT) Site: SECTION 29 T8S, R17E

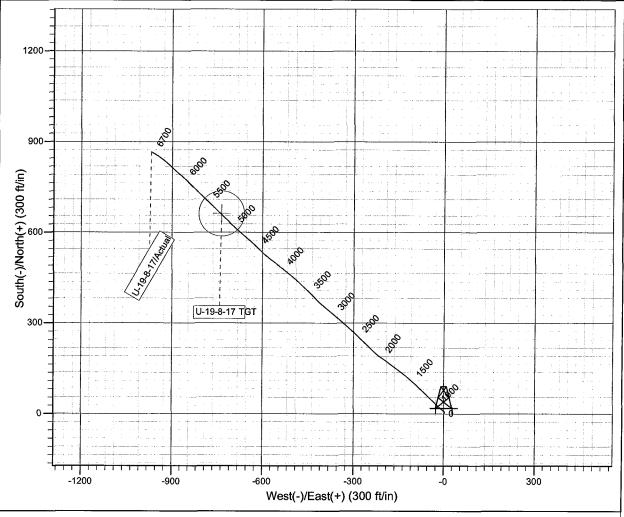
Well: U-19-8-17 Wellbore: Wellbore #1 Design: Actual



Azimuths to Grid North True North: -0.94° Magnetic North: 10.44°

Magnetic Field Strength: 52354.1snT Dip Angle: 65.85° Date: 12/7/2010 Model: IGRF2010







Design: Actual (U-19-8-17/Wellbore #1)

Created By: Sarah Webb

Date:

15:44, April 09 2012

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA